

*Digital Lesson.com Presents*

**- 6th Grade Math -**

# Common Core Warm-Up Program

Revisit the Standards  
Throughout the School Year



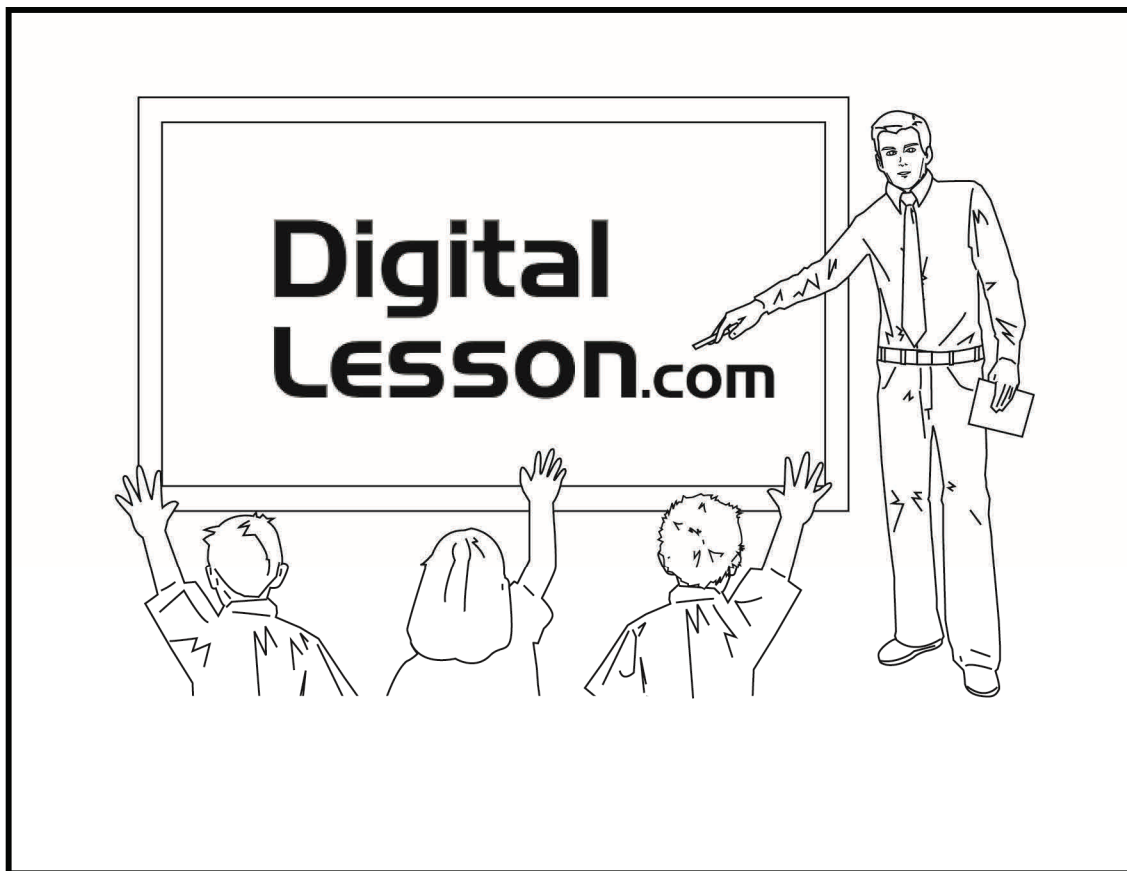
**By Mark P. Tully**

Mark P. Tully

6th Grade Math

# Common Core

## Warm-Up Program



120 Warm-Ups to Begin Your Math Class

Revisit the Standards Throughout the School Year

Reinforce Learning through Repetition

Sharpen Student Skills to Facilitate Problem Solving

# 6th Grade Math Common Core Warm-Up Program

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Thank you,

Mark Tully

Founder, DigitalLesson.com

Mark Tully is a mathematics teacher at Oak Middle School in the Los Alamitos Unified School District, Los Alamitos, California. He has been teaching for more than 25 years and during that time has served as Mathematics Department Chairman and as a Mathematics Mentor Teacher. He enjoys developing activities that are designed to present the prescribed mathematics curriculum and standards in a way that is active and engaging.

Mark's website, [www.DigitalLesson.com](http://www.DigitalLesson.com), is designed to meet the needs of middle school math teachers. DigitalLesson.com specializes in providing instant downloads of engaging, hands-on math activities. These middle school math activities are designed to enhance the middle school math program. Also included on the site are other math resources tailored for the middle school math teacher.

Mark also publishes the *Middle School Math Treasures* newsletter. The newsletter includes resources, ideas, and activities for middle school math teachers. A subscription to *Middle School Math Treasures* is free! Sign up on the home page of DigitalLesson.com. Unsubscribe at any time. We will never rent or sell your e-mail address. Enjoy this great, free resource!

We would love to hear about your experiences using this book, [6th Grade Math Common Core Warm-Up Program](#) in your classroom. Please e-mail us with any comments at [mark@digitallesson.com](mailto:mark@digitallesson.com).

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# 6th Grade Math Common Core Warm-Up Program

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# 6th Grade Math Common Core Warm-Up Program

## Teacher Introduction (p. 1)

### Why a Math Warm-Up Program?

I have used several math warm-up programs in my classroom over the past few years and I believe that **they have played a significant role in the achievement of my math students**. I'll get into more detail below, but here is a list of the key benefits that I have experienced when using a warm-up program:

- \* warm-ups set the tone for a productive math class period
- \* warm-ups give me the opportunity to quickly pre-teach or review important math concepts
- \* warm-ups create multiple opportunities for students to learn each concept throughout the year
- \* warm-ups can increase student performance on mathematical tasks and tests that have math skills as their foundation

**Repetition and experience are keys to learning.** Think of the strong mathematical foundation that your students will build as they continuously review key 6th grade concepts in this Common Core Warm-Up Program.

### Setting the Tone for a Productive Math Class Period

When my students enter my classroom they find 5 warm-up problems projected on the screen at the front of the classroom. I have trained my students to quiet down when the bell rings, copy down their homework assignment, and then begin their warm-up problems. This calming, systematic start to each day becomes familiar to students and maximizes effective instructional time in the classroom.

### Repeated Opportunities for Students to Learn

A few years ago I was involved in a discussion with my principal about how we could improve student performance in math. I told her that to me this was NOT a mystery. **If students were given the opportunity to practice the key skills in their grade level a number of times during the school year, their retention and ability to use these concepts would dramatically increase.** My principal then informed me that we had purchased a set of warm-ups that would help us accomplish our goal.

Too often (before I used warm-ups) students were taught a linear progression of grade level skills during the year and then we held a multi-day “cram session” where we reviewed the most important skills again before our end of the year assessments. This method proved to be **not nearly as effective as regular warm-up problems**. Regular warm-up problems often expose students to the key grade level concepts 5-10 times (or more) during the course of the school year. The results of this consistent program of review were noteworthy.

# 6th Grade Math Common Core Warm-Up Program

## Teacher Introduction (p. 2)

### The Results of Using Daily Warm-Ups in the Math Classroom

The year that we purchased the warm-up program we were only able to complete 50-60 of the daily warm-ups because we started a few months into the school year. Still, our 7th grade math state test results showed the biggest increase out of any subject and grade level in our school. While my conclusion is based solely on observation (and I know that there are other factors involved) my colleagues and I are certain that **repeated exposures to the key content standards** in 7th grade **made a significant difference** in our results.

The following year our 6th grade team (I teach both grade levels) created our own set of warm-ups because a commercial product like the one we used in 7th grade was not available to us. We experienced similar results of significant improvement by our 6th grade students on the state mathematics test that year.

To me it is simply common sense that students will better understand ratios, expressions and equations, statistics, and many other topics when they are given **multiple opportunities to learn each concept throughout the school year.**

### The Common Core State Standards for 6th Grade Math

With the vast majority of states having adopted the Common Core State Standards for Mathematics, how will skill-based warm-ups fit in with these new standards? I believe that students will always need a strong skill set in order to approach the problem solving tasks and activities that are part of the Common Core.

Based on my experiences as a teacher for over 25 years, **I have developed this 6th Grade Math Common Core Warm-Up Program to both implement and help support the Common Core State Standards.**

Each of the 120 warm-up pages in this book has 5 problems aligned with the Common Core State Standards for 6th grade math. It is **my goal that this warm-up program will help propel your 6th grade math students to success in math** this year and for years to come.

### Implementing this Warm-Up Program in Your Classroom

In the **pages that follow** I will give you a step-by-step description of how I implement a warm-up program in my classroom. As always, these are ideas and suggestions based on my experience. **As a math teacher you should absolutely modify any procedures so that they work most effectively for you and your classroom.**

# 6th Grade Math Common Core Warm-Up Program

## Implementing the Program in Your Classroom (p. 1)

### 1) Students Complete the Five Daily Warm-Up Problems (5-8 minutes)

When students enter the classroom they see a warm-up projected on the front screen. They complete the problems to the best of their ability, **showing their work on the warm-up recording sheet provided with this program**. After 5-8 minutes we review the answers, even if not every student has finished. Students **number the problems** and **show either work or the original problem** on their recording sheet.

### 2) Checking the Warm-Up Problems (2-4 minutes)

#### Student Participation

When I review the answers to the warm-ups I keep track of who answers each question by putting a tally mark on my seating chart. That way I ensure that everyone participates in this activity over the course of time. I call on a student and ask that student to share their answer and then, if appropriate, explain how they solved the problem. Some problems are straight computation and do not require an explanation.

#### Distributing Tickets

As an incentive for answering questions I select a student and give them 6 tickets to distribute. Five are for the students that correctly answer and explain the warm-up problems and 1 is to be kept by the student who distributes the tickets. Students receiving a ticket (from a basic roll of tickets that I purchase from Staples) put their name on the back and place the ticket in a class-specific can at the back of the classroom. Every 3-4 weeks I hold ticket drawings where I select 10-20 tickets and give away treats, school passes, homework passes, and any other prizes that I can get my hands on. I mention this at Back-to-School Night and parents will often donate items for our ticket drawings.

#### Teaching Mini Lessons

As we review the math problems I often teach small mini-lessons. We discuss any problems that are previews of lessons that have not yet been taught as well as those problems that review or apply previously covered concepts. I realize that these short explanations will not be grasped by every student. However, a number of students will better understand after the explanation and will be more prepared for similar problems in the future. Remember, this warm-up program is not taught for immediate mastery of every concept. Rather, multiple exposures to the mathematics will help lead students to mastery.

#### Answer Key Abbreviations Due to Limited Space

- \* Property answers are abbreviated so “Commutative +” means Commutative Property of Addition.
- \* Dot (line) plot information is given although the actual drawing is not included due to space limitations.
- \* Box (and whisker) plots are not drawn but can easily be explained as the key numbers are given.
- \* Answers for graphing inequality problems such as  $x < 3$  are given as “open dot, to left.”



# 6th Grade Math Common Core Warm-Up Program

## Implementing the Program in Your Classroom (p. 2)

### 3) Warm-Up Corrections

Students do the warm-up problems in pencil and correct them in colored pencil or ink on their Student Warm-Up Recording Sheet. They show work for each problem and place the answers in the answer column.

As we correct and discuss the problems students are instructed to show corrections (in color) next to each problem that they have missed. In my class, a correction is not just copying the correct answer in color next to their incorrect answer in the answer column. I require that students actually show the work (calculations, drawings, explanations, etc.) for any missed problems next to their original work.

### 4) Grading Warm-Ups

At the end of each five-day warm-up period I collect the students' recording sheets. In giving the students credit for their work and assigning a grade I am less concerned with their actual score and more concerned with student learning. With this in mind I consider three things before assigning a grade.

First, I check to make sure that students have shown some kind of work on every problem. On simple problems this may just be writing the problem down. On other problems this may mean showing the calculations involved in determining an answer.

Secondly, I monitor student corrections. As mentioned above, I require students to correct (in color) each and every problem that they miss. This is their opportunity for learning. As such, students who do not complete their corrections do not receive full credit. Corrections should include the work associated with arriving at the correct answer, not simply copying down the right answer when it is read aloud in class.

Thirdly, I look at the neatness and completeness of the paper. There are places on the recording sheet for the day, date, warm-up number, score, work, answers, and heading. If the paper is not filled out completely then the student will not receive full credit.

I count warm-ups as part of the homework grade in my classroom. Once again, I want to re-emphasize the point that I am more concerned with student learning during the warm-up process than I am with how many problems they get correct each day. If students miss problems but learn from their mistakes (and show their corrections) they can still receive full credit on the assignment.

Sometimes I use exceptional Student Warm-Up Recording Sheets as examples to help students understand the kind of work that I expect.

Finally, do not be overwhelmed by the prospect of grading several class sets of warm-ups. I quickly scan a paper for work, corrections, and completeness. I also notice how many problems they answered correctly out of the total. I can usually grade a class set of 35 papers in about 10 minutes.

# 6th Grade Math Common Core Warm-Up Program

## Implementing the Program in Your Classroom (p. 3)

### Additional Tips for Implementation

Navigation - There are **two main ways to navigate to the warm-up page that you will be using on a given day**. One option is to use the **bookmarks function** on this pdf file. Just click on the link for a given warm-up to be directed to that page. The second option is to simply **add 23 to the scheduled warm-up number** to find the correct page in this eBook. For example, to access Warm-up # 50 go to page 73.

Absences - Absent students are instructed to write “absent” on their recording sheet for any days that they miss school. No makeups are given on warm-ups.

Show Work - Work is required to be shown on all problems. For those problems that can be solved mentally, students should, at a minimum, write down the problem given.

Projection Tips - The warm-ups can be projected onto a screen directly from the pdf using a projector or by using physical copies of the warm-ups and a document camera. To keep the projection large enough it may be necessary to scroll down the page or slide the physical copy beneath the document camera. In such cases instruct students to complete the top two problems (problems #1 and #4) because they will not be visible if the warm-up needs to be repositioned.

No Calculators - This warm-up program is designed to be done without calculators. Required calculations are within the reasonable ability range for the students.

Encourage Drawings - Certain types of problems (coordinate plane problems, etc.) can best be solved by quickly sketching or drawing a picture to help find the answer. Encourage drawing as a strategy.

Time Period - The warm-ups and their work are completed on a recording sheet that has room for 5 warm-ups. Although I am very consistent in using warm-ups, I do not give warm-ups every single day. Sometimes there is a test or other assignment that requires the entire class period and so no warm-up is given on that day. Do not feel that warm-ups need to start on a Monday and end on a Friday. I start a new warm-up sheet when needed whether that is on a Monday or any other day of the week.

New Problem Types - As mentioned previously, I do not expect students to answer every problem correctly, especially when new concepts are introduced. I briefly explain the new concept and move on. Some students will understand the first time and others will understand with further repetition.

120 Warm-ups - I have never finished 120 warm-ups in one school year even though our school year has about 180 days. The reasons for this include days without warm-ups (tests, projects, assemblies, etc.) as well as days at the beginning and end of the school year where I do not use warm-ups because we are either in intro mode or windup mode. In addition, I like to mix in other starter activities every now and then. If you do end up needing more than 120 warm-ups my suggestion would be to cycle back around and choose some of the warm-ups to rework. Your students will not have these problems memorized and so they will continue to provide an effective review of 6th grade math concepts.

Math 6

LAST, FIRST

Warm-Ups

**(Sample Page)**

MATH, PERIOD 2

Common Core Review

10/12/18

MONDAY

10/12

Warm-Up # 26

4 / 5

1) 53

2) \$12.45

1) Show work 2) Show work 3) Show work 4) Show work 5) Show work

3) 32 IN.<sup>2</sup>

or problem or problem or problem or problem or problem

4)  $X \geq 5$

5) 3,284

Warm-Up # \_\_\_\_\_ / 5

**(REMEMBER TO CORRECT ALL MISSED PROBLEMS IN COLOR.)**

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

Warm-Up # \_\_\_\_\_ / 5

**(NUMBER YOUR WORK)**

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

Warm-Up # \_\_\_\_\_ / 5

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

Warm-Up # \_\_\_\_\_ / 5

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

Warm-Up Page Score 22 / 25

Math 6

Warm-Ups

Common Core Review

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ Warm-Up # \_\_\_\_\_ / 5 1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_

\_\_\_\_\_ Warm-Up # \_\_\_\_\_ / 5 1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_

\_\_\_\_\_ Warm-Up # \_\_\_\_\_ / 5 1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_

\_\_\_\_\_ Warm-Up # \_\_\_\_\_ / 5 1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_

\_\_\_\_\_ Warm-Up # \_\_\_\_\_ / 5 1) \_\_\_\_\_  
2) \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_

Warm-Up Page Score \_\_\_\_\_ / \_\_\_\_\_

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Correlation by Warm-Up (1-56)

- 1) 6. RP. 1, 6.NS.2, 6.RP.2, 6.NS.1, 6.NS.4
- 2) 6. RP.3a, 6.NS.3, 6.RP.2, 6.RP.3c, 6.NS.2
- 3) 6.NS.3, 6.NS.1, 6.NS.7a, 6.NS.5, 6.RP.3c
- 4) 6.RP.3b, 6.RP.3d, 6.NS.6b, 6.RP.3c, 6.NS.1
- 5) 6.EE.1, 6.EE.3, 6.G.1, 6.RP.2, 6.NS.4
- 6) 6.NS.6c, 6.EE.1, 6.EE.8, 6.SP.5c, 6.RP.2
- 7) 6.NS.2, 6.NS.4, 6.RP.3b, 6.EE.6, 6.G.1
- 8) 6.NS.7c, 6.NS.4, 6.NS.3, 6.EE.2c, 6.RP.3b
- 9) 6.EE.2c, 6.RP.3d, 6.NS.3, 6.RP.3b, 6.NS.8
- 10) 6.EE.1, 6.EE.5, 6.NS.8, 6.RP.1, 6.NS.8
- 11) 6.EE.1, 6.EE.1, 6.SP.5c, 6.NS.1, 6.EE.8
- 12) 6.EE.2c, 6.NS.1, 6.RP.3d, 6.NS.5, 6.EE.1
- 13) 6.NS.4, 6.NS.6b, 6.EE.2a, 6.EE.8, 6.G.1
- 14) 6.NS.3, 6.NS.4, 6.EE.3, 6.EE.8, 6.G.2
- 15) 6.NS.6a, 6.NS.7c, 6.RP.3b, 6.NS.8, 6.NS.5
- 16) 6.NS.1, 6.EE.2c, 6.NS.7d, 6.EE.3, 6.G.3
- 17) 6.NS.3, 6.NS.7b, 6.EE.2c, 6.EE.2c, 6.EE.9
- 18) 6.NS.1, 6.NS.6b, 6.EE.3, 6.G.1, 6.SP.5c
- 19) 6.NS.2, 6.RP.1, 6.RP.3d, 6.NS.3, 6.EE.9
- 20) 6.EE.1, 6.EE.5, 6.NS.1, 6.RP.3c, 6.EE.9
- 21) 6.NS.6a, 6.NS.7b, 6.EE.4, 6.G.1, 6.SP.5c
- 22) 6.NS.1, 6.NS.3, 6.EE.5, 6.G.2, 6.NS.4
- 23) 6.NS.3, 6.NS.4, 6.RP.1, 6.NS.8, 6.EE.9
- 24) 6.NS.4, 6.EE.3, 6.NS.3, 6.EE.8, 6.G.1
- 25) 6.EE.1, 6.NS.4, 6.EE.4, 6.EE.8, 6.G.1
- 26) 6.NS.1, 6.EE.5, 6.NS.8, 6.NS.7b, 6.RP.2
- 27) 6.EE.2c, 6.EE.3, 6.NS.5, 6.SP.5c, 6.G.1
- 28) 6.NS.3, 6.RP.3c, 6.NS.3, 6.EE.8, 6.G.2
- 29) 6.NS.2, 6.RP.3d, 6.EE.4, 6.EE.2b, 6.EE.6
- 30) 6.NS.2, 6.EE.3, 6.NS.4, 6.EE.2b, 6.EE.9
- 31) 6.NS.3, 6.EE.7, 6.RP.2, 6.SP.4, 6.NS.8
- 32) 6.NS.3, 6.EE.5, 6.RP.1, 6.RP.3c, 6.EE.8
- 33) 6.NS.7c, 6.EE.1, 6.NS.3, 6.EE.8, 6.G.1
- 34) 6.NS.2, 6.EE.2a, 6.NS.6c, 6.EE.8, 6.EE.9
- 35) 6.NS.2, 6.NS.4, 6.RP.3b, 6.G.1, 6.SP.5c
- 36) 6.NS.1, 6.NS.1, 6.RP.3d, 6.EE.8, 6.RP.3a
- 37) 6.NS.2, 6.EE.3, 6.NS.5, 6.NS.8, 6.EE.9
- 38) 6.NS.2, 6.EE.2a, 6.NS.4, 6.NS.8, 6.EE.9
- 39) 6.NS.1, 6.NS.4, 6.NS.6b, 6.RP.3c, 6.EE.4
- 40) 6.EE.1, 6.NS.6b, 6.EE.2b, 6.EE.8, 6.G.1
- 41) 6.EE.1, 6.EE.5, 6.G.1, 6.G.3, 6.SP.5c
- 42) 6.EE.1, 6.EE.2c, 6.NS.8, 6.G.2, 6.EE.6
- 43) 6.NS.2, 6.EE.2c, 6.NS.8, 6.EE.8, 6.G.1
- 44) 6.NS.3, 6.EE.5, 6.RP.1, 6.NS.7a, 6.G.3
- 45) 6.EE.1, 6.EE.2c, 6.SP.5c, 6.EE.8, 6.G.1
- 46) 6.NS.2, 6.EE.2a, 6.NS.5, 6.RP.2, 6.SP.4
- 47) 6.NS.4, 6.EE.5, 6.EE.3, 6.NS.6c, 6.RP.3a
- 48) 6.NS.2, 6.EE.2c, 6.EE.2b, 6.G.2, 6.SP.5c
- 49) 6.NS.6a, 6.EE.1, 6.EE.8, 6.SP.4, 6.G.1
- 50) 6.NS.7c, 6.NS.4, 6.RP.3c, 6.NS.2, 6.NS.8
- 51) 6.NS.1, 6.NS.6b, 6.RP.1, 6.EE.1, 6.NS.4
- 52) 6.RP.3c, 6.EE.3, 6.G.1, 6.EE.2b, 6.NS.8
- 53) 6.EE.5, 6.NS.4, 6.RP.3d, 6.EE.8, 6.G.3
- 54) 6.NS.3, 6.NS.4, 6.NS.7b, 6.EE.5, 6.EE.9
- 55) 6.NS.6a, 6.EE.2a, 6.NS.8, 6.SP.5c, 6.G.1
- 56) 6.NS.3, 6.EE.2a, 6.NS.3, 6.NS.6b, 6.RP.3b

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Correlation by Warm-Up (57-112)

- 57) 6.NS.3, 6.EE.3, 6.RP.2, 6.G.2, 6.NS.8  
58) 6.NS.2, 6.EE.5, 6.EE.2a, 6.EE.8, 6.NS.5  
59) 6.EE.1, 6.RP.1, 6.EE.3, 6.RP.3c, 6.NS.6c  
60) 6.NS.1, 6.EE.1, 6.NS.3, 6.SP.5b, 6.G.4  
61) 6.EE.1, 6.NS.1, 6.RP.3a, 6.NS.3, 6.G.1  
62) 6.EE.1, 6.NS.6b, 6.NS.8, 6.NS.5, 6.EE.6  
63) 6.NS.3, 6.NS.6b, 6.NS.5, 6.RP.2, 6.EE.4  
64) 6.NS.1, 6.EE.3, 6.G.3, 6.EE.8, 6.RP.3a  
65) 6.RP.3c, 6.NS.4, 6.NS.7b, 6.NS.3, 6.RP.3c  
66) 6.EE.2c, 6.EE.3, 6.EE.5, 6.NS.2, 6.G.1  
67) 6.NS.1, 6.RP.3d, 6.RP.3b, 6.NS.6b, 6.SP.4  
68) 6.EE.5, 6.NS.4, 6.RP.1, 6.NS.3, 6.NS.8  
69) 6.NS.2, 6.EE.3, 6.EE.2c, 6.G.2, 6.NS.8  
70) 6.NS.4, 6.NS.7c, 6.RP.3c, 6.EE.8, 6.NS.6c  
71) 6.NS.3, 6.EE.3, 6.SP.5c, 6.NS.7a, 6.NS.4  
72) 6.EE.5, 6.NS.4, 6.RP.2, 6.NS.6b, 6.EE.9  
73) 6.EE.1, 6.NS.3, 6.NS.5, 6.RP.3c, 6.NS.8  
74) 6.NS.3, 6.EE.2a, 6.RP.1, 6.EE.8, 6.G.3  
75) 6.EE.1, 6.EE.3, 6.NS.3, 6.EE.3, 6.G.1  
76) 6.EE.1, 6.NS.4, 6.NS.7d, 6.RP.3c, 6.RP.3b  
77) 6.NS.3, 6.EE.6, 6.NS.3, 6.G.1, 6.RP.3a  
78) 6.NS.7c, 6.EE.5, 6.NS.8, 6.EE.2b, 6.G.4  
79) 6.NS.2, 6.EE.3, 6.RP.3b, 6.G.3, 6.EE.8  
80) 6.NS.2, 6.RP.3d, 6.EE.5, 6.EE.2b, 6.SP.5c  
81) 6.EE.1, 6.NS.6b, 6.RP.1, 6.NS.5, 6.NS.8  
82) 6.NS.1, 6.EE.7, 6.EE.3, 6.G.2, 6.SP.5d  
83) 6.NS.1, 6.RP.1, 6.EE.2a, 6.EE.1, 6.EE.4  
84) 6.NS.7c, 6.EE.3, 6.NS.6b, 6.EE.8, 6.EE.6  
85) 6.EE.7, 6.RP.2, 6.EE.3, 6.EE.2c, 6.NS.8  
86) 6.NS.2, 6.NS.1, 6.EE.2b, 6.EE.8, 6.NS.5  
87) 6.NS.6a, 6.EE.2a, 6.SP.4, 6.RP.2, 6.EE.2c  
88) 6.EE.1, 6.NS.6b, 6.NS.4, 6.SP.5c, 6.G.4  
89) 6.NS.1, 6.EE.2c, 6.RP.3c, 6.NS.3, 6.G.1  
90) 6.NS.2, 6.NS.4, 6.RP.3a, 6.EE.8, 6.SP.5c  
91) 6.NS.2, 6.NS.6b, 6.NS.7b, 6.EE.2b, 6.RP.3a  
92) 6.NS.3, 6.NS.6b, 6.EE.2c, 6.EE.8, 6.EE.9  
93) 6.NS.3, 6.EE.2a, 6.RP.3a, 6.EE.8, 6.G.1  
94) 6.NS.2, 6.EE.3, 6.NS.5, 6.RP.3c, 6.RP.2  
95) 6.EE.1, 6.RP.3d, 6.NS.3, 6.G.3, 6.EE.4  
96) 6.EE.5, 6.NS.6b, 6.RP.1, 6.EE.8, 6.RP.3a  
97) 6.NS.1, 6.RP.2, 6.SP.5b, 6.NS.4, 6.NS.8  
98) 6.EE.7, 6.NS.7c, 6.NS.8, 6.EE.2b, 6.G.4  
99) 6.EE.5, 6.RP.1, 6.NS.3, 6.NS.2, 6.NS.6c  
100) 6.EE.1, 6.NS.6b, 6.RP.3b, 6.G.2, 6.NS.4  
101) 6.EE.1, 6.NS.4, 6.NS.6b, 6.EE.8, 6.RP.3b  
102) 6.NS.6a, 6.EE.2a, 6.G.1, 6.RP.3c, 6.EE.6  
103) 6.NS.4, 6.EE.5, 6.RP.3d, 6.NS.7a, 6.SP.5a  
104) 6.NS.2, 6.EE.2a, 6.NS.7b, 6.G.1, 6.SP.5d  
105) 6.NS.3, 6.NS.6b, 6.SP.5c, 6.G.1, 6.EE.6  
106) 6.NS.7c, 6.EE.3, 6.RP.3b, 6.EE.8, 6.G.1  
107) 6.NS.2, 6.EE.2c, 6.EE.4, 6.G.1, 6.SP.5c  
108) 6.EE.1, 6.EE.5, 6.EE.2c, 6.SP.5c, 6.NS.5  
109) 6.EE.2c, 6.NS.3, 6.EE.2b, 6.EE.8, 6.NS.8  
110) 6.NS.3, 6.EE.3, 6.NS.6b, 6.EE.3, 6.G.4  
111) 6.EE.1, 6.NS.1, 6.RP.1, 6.EE.2b, 6.EE.8  
112) 6.NS.2, 6.EE.2c, 6.NS.4, 6.RP.2, 6.SP.5c

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Correlation by Warm-Up (113-120)

- 113) 6.NS.3, 6.EE.3, 6.NS.6b, 6.RP.3c, 6.NS.8
- 114) 6.NS.2, 6.EE.3, 6.NS.4, 6.RP.3b, 6.SP.5d
- 115) 6.EE.5, 6.NS.6b, 6.NS.3, 6.SP.5c, 6.SP.5a
- 116) 6.NS.1, 6.RP.2, 6.NS.5, 6.EE.1, 6.SP.5c
- 117) 6.NS.3, 6.NS.4, 6.G.3, 6.EE.8, 6.SP.5c
- 118) 6.EE.1, 6.EE.3, 6.G.1, 6.RP.3c, 6.NS.8
- 119) 6.NS.1, 6.EE.2c, 6.NS.6b, 6.NS.7a, 6.EE.9
- 120) 6.NS.4, 6.NS.6b, 6.EE.4, 6.SP.5c, 6.G.4

# 6th Grade Math Common Core Warm-Up Program

## List of Warm-ups Where Each Standard is Covered (1 of 3)

### Ratios and Proportional Relationships (6.RP)

6.RP.1: 1, 10, 19, 23, 32, 44, 51, 59, 68, 74, 81, 83, 96, 99, 111

6.RP.2: 1, 2, 5, 6, 26, 31, 46, 57, 63, 72, 85, 87, 94, 97, 112, 116

#### 6.RP.3

6.RP.3a: 2, 36, 47, 61, 64, 77, 90, 91, 93, 96

6.RP.3b: 4, 7, 8, 9, 15, 35, 56, 67, 76, 79, 100, 101, 106, 114

6.RP.3c: 2, 3, 4, 20, 28, 32, 39, 50, 52, 59, 65, 70, 73, 76, 89, 94, 102, 113, 118

6.RP.3d: 4, 9, 12, 19, 29, 36, 53, 67, 80, 95, 103

### The Number System (6.NS)

6.NS.1: 1, 3, 4, 11, 12, 16, 18, 20, 22, 26, 36, 39, 51, 60, 61, 64, 67, 82, 83, 86, 89, 97, 111, 116, 119

6.NS.2: 1, 2, 7, 19, 29, 30, 34, 35, 37, 38, 43, 46, 48, 50, 58, 66, 69, 79, 80, 86, 90, 91, 94, 99, 104, 107, 112, 114

6.NS.3: 2, 3, 8, 9, 14, 17, 19, 22, 23, 24, 28, 31, 32, 33, 44, 54, 56, 57, 60, 61, 63, 65, 68, 71, 73, 74, 75, 77, 89, 92, 93, 95, 99, 105, 109, 110, 113, 115, 117

6.NS.4: 1, 5, 7, 8, 13, 14, 22, 23, 24, 25, 30, 35, 38, 39, 47, 50, 51, 53, 54, 65, 68, 70, 71, 72, 76, 88, 90, 97, 100, 101, 103, 112, 114, 117, 120

6.NS.5: 3, 12, 15, 27, 37, 46, 58, 62, 63, 73, 81, 86, 94, 108, 116

#### 6.NS.6

6.NS.6a: 15, 21, 49, 55, 87, 102

6.NS.6b: 4, 13, 18, 39, 40, 51, 56, 62, 63, 67, 72, 81, 84, 88, 91, 92, 96, 100, 101, 105, 110, 113, 115, 119, 120

6.NS.6c: 6, 34, 47, 59, 70, 99

#### 6.NS.7

6.NS.7a: 3, 44, 71, 103, 119

6.NS.7b: 17, 21, 26, 54, 65, 91, 104

6.NS.7c: 8, 15, 33, 50, 70, 78, 84, 98, 106

6.NS.7d: 16, 76

6.NS.8: 9, 10, 15, 23, 26, 31, 37, 38, 42, 43, 50, 52, 55, 57, 62, 68, 69, 73, 78, 81, 85, 97, 98, 109, 113, 118



# 6th Grade Math Common Core Warm-Up Program

## List of Warm-ups Where Each Standard is Covered (2 of 3)

### Expressions and Equations (6.EE)

6.EE.1: 5, 6, 10, 11, 12, 20, 25, 33, 40, 41, 42, 45, 49, 51, 59, 60, 61, 62, 73, 75, 76, 81, 83, 88, 95, 100, 101, 108, 111, 116, 118

#### 6.EE.2

6.EE.2a: 13, 34, 38, 46, 55, 56, 58, 74, 83, 87, 93, 102, 104

6.EE.2b: 29, 30, 40, 48, 52, 78, 80, 86, 91, 98, 109, 111

6.EE.2c: 8, 9, 12, 16, 17, 27, 42, 43, 45, 48, 66, 69, 85, 87, 89, 92, 107, 108, 109, 112, 119

6.EE.3: 5, 14, 16, 18, 24, 27, 30, 37, 47, 52, 57, 59, 64, 66, 69, 71, 75, 79, 82, 84, 85, 94, 106, 110, 113, 114, 118

6.EE.4: 21, 25, 29, 39, 63, 83, 95, 107, 120

6.EE.5: 10, 20, 22, 26, 32, 41, 44, 47, 53, 54, 58, 66, 68, 72, 78, 80, 96, 99, 103, 108, 115

6.EE.6: 7, 29, 42, 62, 77, 84, 102, 105

6.EE.7: 31, 82, 85, 98

6.EE.8: 6, 11, 13, 14, 24, 25, 28, 32, 33, 34, 36, 40, 43, 45, 49, 53, 58, 64, 70, 74, 79, 84, 86, 90, 92, 93, 96, 101, 106, 109, 111, 117

6.EE.9: 17, 19, 20, 23, 30, 34, 37, 38, 54, 72, 92, 119

### Geometry (6.G)

6.G.1: 5, 7, 13, 18, 21, 24, 25, 27, 33, 35, 40, 41, 43, 45, 49, 52, 55, 61, 66, 75, 77, 89, 93, 102, 104, 105, 106, 107, 118

6.G.2: 14, 22, 28, 42, 48, 57, 69, 82, 100

6.G.3: 16, 41, 44, 53, 64, 74, 79, 95, 117

6.G.4: 60, 78, 88, 98, 110, 120

# 6th Grade Math Common Core Warm-Up Program

## List of Warm-ups Where Each Standard is Covered (3 of 3)

### Statistics and Probability (6.SP)

6.SP.1: (covered in standards 6.SP.4 and 6.SP.5a)

6.SP.2: (covered in standards 6.SP.5a and 6.SP.5c)

6.SP.3: (covered in standards 6.SP.5c and 6.SP.5d)

6.SP.4: 31, 46, 49, 67, 87,

#### 6.SP.5

6.SP.5a: 103, 115,

6.SP.5b: 60, 97,

6.SP.5c: 6, 11, 18, 21, 27, 35, 41, 45, 48, 55, 71, 80, 88, 90, 105, 107, 108, 112, 115, 116, 117, 120

6.SP.5d: 82, 104, 114,

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Warm-Up Answers (1-28)

- |     |                      |                                   |                         |  |                         |
|-----|----------------------|-----------------------------------|-------------------------|--|-------------------------|
| 1)  | 1) $\frac{2}{3}$     | 2) 420                            | 3) 21pgs./hr.           | 4) 15 days                                   | 5) June 22nd            |
| 2)  | 1) $x = 20$          | 2) 146.443                        | 3) 15                   | 4) \$105.00                                  | 5) 1 $\frac{1}{2}$ bars |
| 3)  | 1) 1,600,000         | 2) $\frac{3}{17}$                 | 3) $<$                  | 4) 753 ft.                                   | 5) 16 slices            |
| 4)  | 1) \$12.50           | 2) 66 in.                         | 3) 4th quadrant         | 4) \$48.00                                   | 5) 8 cars               |
| 5)  | 1) 64                | 2) Commutative +                  | 3) $20 \text{ in.}^2$   | 4) 2 pgs./hr.                                | 5) 14 in. x 14 in.      |
| 6)  | 1) -8.5              | 2) 0.0064                         | 3) $s \leq 65$          | 4) 17  | 5) 24 miles             |
| 7)  | 1) 241               | 2) 24                             | 3) \$1.05/qt.           | 4) $2t + 3.75$                               | 5) \$240.00             |
| 8)  | 1) 17                | 2) 62.5                           | 3) 8                    | 4) \$50.00                                   | 5) 2 cents              |
| 9)  | 1) 90                | 2) 1 $\frac{1}{4}$ lbs.           | 3) 35.48                | 4) 8 hr. 45 min.                             | 5) 9 units              |
| 10) | 1) $\frac{1}{27}$    | 2) $x = 3$                        | 3) (5,-3)               | 4) 1 : 5                                     | 5) 24 units             |
| 11) | 1) 1                 | 2) $7^8$                          | 3) 7                    | 4) 20 people                                 | 5) $h \geq 48$          |
| 12) | 1) -12               | 2) 1 $\frac{1}{5}$                | 3) 3,200 oz.            | 4) \$11.50                                   | 5) $25x^2$              |
| 13) | 1) 1,2,3,4,6,8,12,24 | 2) 3rd quad.                      | 3) $7x$                 | 4) open dot, to right                        | 5) $584 \text{ ft.}^2$  |
| 14) | 1) 19.24             | 2) 8,16,24,32,40                  | 3) Associative +        | 4) closed dot, to left                       | 5) $189 \text{ ft.}^3$  |
| 15) | 1) 7                 | 2) 27                             | 3) 23 mi./gal.          | 4) 11 units                                  | 5) -52 ft.              |
| 16) | 1) $\frac{5}{6}$     | 2) 32                             | 3) increased by \$15    | 4) $8x + 32$                                 | 5) isosceles triangle   |
| 17) | 1) 51.2              | 2) $-5 > -8$                      | 3) 60                   | 4) \$19.00                                   | 5) $y = 3x + 4$         |
| 18) | 1) 18                | 2) 2nd quadrant                   | 3) distributive         | 4) $40 \text{ cm}^2$                         | 5) 28                   |
| 19) | 1) yes               | 2) 5 : 2                          | 3) 3 $\frac{1}{2}$ tons | 4) \$44.25                                   | 5) 0, 3, 250            |
| 20) | 1) 81                | 2) yes                            | 3) 1 $\frac{3}{4}$ ft.  | 4) \$200.00                                  | 5) $y = 2x - 3$         |
| 21) | 1) -5                | 2) $\frac{1}{5}$ , 22%, .25, .251 | 3) $9x + 5y$            | 4) $27.04 \text{ in.}^2$                     | 5) 17 points            |
| 22) | 1) 1 $\frac{1}{2}$   | 2) 60                             | 3) no                   | 4) $l = 6 \text{ ft.}$                       | 5) $4(9 + 2)$           |
| 23) | 1) 61.062            | 2) 12                             | 3) 5 : 3                | 4) (-7,-3)                                   | 5) $y = 5x + 1$         |
| 24) | 1) 1,2,4,8,16,32     | 2) Identity x                     | 3) 320,000              | 4) $x \geq -7$                               | 5) $220 \text{ in.}^2$  |
| 25) | 1) 1                 | 2) 12,24,36,48,60                 | 3) $7x + 2y + 2$        | 4) $x > 9$                                   | 5) $96 \text{ ft.}^2$   |
| 26) | 1) 7                 | 2) $x = 7$                        | 3) 11 units             | 4) $\frac{3}{4}$ , 0.78, $\frac{4}{5}$ , 81% | 5) 161 pages            |
| 27) | 1) 16                | 2) Commutative x                  | 3) $-34^\circ\text{F}$  | 4) 23.5                                      | 5) $32 \text{ in.}^2$   |
| 28) | 1) 24.192            | 2) \$35.00                        | 3) 5                    | 4) open dot, to left                         | 5) $120 \text{ ft.}^3$  |

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Warm-Up Answers (29-56)

- 29) 1) no            2) 120 oz.            3)  $32x$             4) 3, 4, -7            5)  $3x - 2$
- 30) 1) 23            2) Associative +            3) 18            4) Cynthia, 2 more            5)  $y = 4x - 4$
- 31) 1) 82.42            2)  $8 \frac{1}{4}$             3) 794 widgets/hr.            4) 2, 4, 0, and 5 x's            5) 24 units<sup>2</sup>
- 32) 1) 12.3            2)  $x = 14$             3) 2 : 1            4) 12 miles            5) closed dot, to right
- 33) 1) 73            2) 2            3) 240,000            4)  $a \geq 18$             5) 28 ft.<sup>2</sup>
- 34) 1) no            2)  $x + 12$             3) -5.5            4) 13.75 in.<sup>2</sup>            5) 130, 5, 650
- 35) 1) 532            2) 30            3) 5 for \$4.25            4) 24 ft.<sup>2</sup>            5) 83
- 36) 1)  $\frac{5}{6}$             2)  $\frac{1}{5}$             3)  $6 \frac{2}{3}$  yds.            4) open dot, to right            5) 40 bags
- 37) 1) yes            2) Identity +            3) -50            4) 6 units            5) \$38.50
- 38) 1)  $\frac{3}{25}$             2)  $x - 5$             3) 30            4) 22 units            5)  $y = 7x + 8$
- 39) 1) 1,125            2) 7,14,21,28,35            3) (7,-2)            4) \$80.00            5)  $13x + 27y - 12$
- 40) 1) 0.0144            2) 1st quadrant            3) 7 terms            4)  $w \leq 1,000$             5) 60 ft.<sup>2</sup>
- 41) 1) -12            2) no            3)  $9x^2$             4) (-3,1)            5) 16 points
- 42) 1) 1            2) 640            3) 9 units            4)  $l = 4 \text{ ft.}$             5)  $3x - 6$
- 43) 1) 34            2)  $1 \frac{1}{2} \text{ in.}^2$             3) (5,-1)            4) closed dot, to left            5) 120 yd.<sup>2</sup>
- 44) 1) 112.144            2)  $x = 48$             3) 2 : 1            4)  $>$             5) \$520.00
- 45) 1)  $\frac{1}{32}$             2) 88            3) 9            4)  $x \leq -2$             5) 79 cm.<sup>2</sup>
- 46) 1) yes            2)  $48 \div 12$             3)  $x - 12$             4) 18 miles            5) 6,4,3, & 9 x's
- 47) 1) 1,2,4,8,16            2)  $h = 8$             3)  $12x + 20y - 16$             4) -5.75            5) 96,70
- 48) 1)  $\frac{1}{12}$             2) 1,152            3) 7, 9, -5            4) 9,000 ft.<sup>3</sup>            5) 109
- 49) 1) 0            2)  $x^3y^5z$             3)  $x < -5$             4) see drawing            5) 623 ft.<sup>2</sup>
- 50) 1) 2            2) 18            3) \$180.00            4) 237 cards            5) 11 units
- 51) 1) 18            2) 3rd quadrant            3) 5 : 8            4)  $27x^3$             5)  $15(4 + 1)$
- 52) 1) 120            2) Associative +            3) 150 ft.<sup>2</sup>            4) -7, 8, -3, 1            5) 80 units<sup>2</sup>
- 53) 1)  $x = 72$             2) 24            3) 57 in.            4) open dot, to left            5) (-4,-7)
- 54) 1) 118.56            2) 73            3)  $\frac{1}{3}, 39\%, \frac{2}{5}, 0.42$             4)  $5(x + 2)$             5)  $y = 5x + 7$
- 55) 1) 83            2)  $4 - 9$             3) (-5,-5)            4) 38.5            5) 58 in.<sup>2</sup>
- 56) 1) 185.879            2)  $8y$             3) 350,000            4) (-4,-2)            5) 4 cents/oz.

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Warm-Up Answers (57-84)

- 57) 1) 5.2      2) Commutative +      3) 26.4 mi./gal.      4)  $l = 4$  in.      5) 28 units
- 58) 1)  $y = 13.9$       2) yes      3)  $3x + 36$       4)  $x \geq 1$       5) \$231.00
- 59) 1) 0.000036      2) 2 : 1      3)  $48x - 40y + 24$       4) 15 cookies      5)  $-3 \frac{1}{3}$
- 60) 1) 2      2) 1      3) 6      4) -1      5)  $384 \text{ in.}^2$
- 61) 1)  $\frac{16}{81}$       2)  $\frac{11}{3}$  or  $3 \frac{2}{3}$       3) 25      4) \$8.75      5)  $1,267.5 \text{ in.}^2$
- 62) 1) 174      2) (-8,7)      3) 15 units      4) 0      5)  $4x + 14$
- 63) 1) 148.53      2) 2nd quadrant      3)  $x + 6.12$       4) 3,900 miles      5)  $5x + 16y + 5$
- 64) 1)  $\frac{9}{11}$       2) Identity x      3) (8,-2)      4)  $a \geq 55$       5) 75, 270
- 65) 1) 650      2) 10,20,30,40,50      3)  $\frac{9}{10}, 89\%, \frac{44}{50}, 0.875$       4) 41.86 cm      5) 12 miles
- 66) 1) 205      2) Associative +      3)  $x > 3$       4) \$2,800.00      5)  $240 \text{ ft.}^2$
- 67) 1) 28      2) 26 ft.      3) \$10.50      4) 4th quadrant      5) see drawing
- 68) 1)  $c = 11$       2) 37      3) 7 : 5      4) \$49.25      5) 12 units
- 69) 1) 215      2) Commutative x      3)  $\frac{1}{8} \text{ in.}^3$       4)  $270 \text{ in.}^3$       5)  $35 \text{ units}^2$
- 70) 1) 1, 3, 5, 15      2) 38      3) 27 chocolates      4)  $x > -3$       5) 0.75
- 71) 1) 113.62      2) Commutative +      3) 53      4)  $<$       5)  $8(6 + 5)$
- 72) 1)  $b = 20$       2) 1      3) 23 laps/day      4) (3,8)      5)  $y = 3x - 2$
- 73) 1) 0.000144      2) 80      3) -12      4) \$44.00      5) 24 units
- 74) 1) 640.83      2)  $3c$       3) 3 : 1      4)  $x \leq 0$       5) \$700.00
- 75) 1) 316      2) Distributive      3) 200,000      4)  $24x + 56y - 32$       5)  $220 \text{ cm.}^2$
- 76) 1) -82      2) 20      3) increased by \$94      4) \$20.00      5) 8 cents/oz.
- 77) 1) 153.713      2)  $12x$       3) 5      4)  $5m$       5) 6, 28, 48
- 78) 1) 15      2) no      3) (-12,-6)      4) -2, 8, -3      5)  $225 \text{ cm.}^2$
- 79) 1) no      2) Associative x      3) \$2.40/ft.      4) (-2,7)      5)  $x < -3$
- 80) 1)  $y = 2.4$       2)  $3 \frac{1}{2}$  lbs.      3)  $x < 5$       4) 2, 4, -6      5) 91
- 81) 1)  $\frac{27}{64}$       2) 4th quadrant      3) 8 : 5      4) 945 ft.      5) 12 units
- 82) 1) 8      2)  $27 \frac{3}{4}$       3)  $21x - 42$       4)  $l = 5$  ft.      5) median
- 83) 1) 34      2) 365 : 12      3)  $5w + 18$       4)  $125y^3$       5)  $24x + 3y + 29$
- 84) 1) 5      2) Distributive      3) (-4,-6)      4)  $x \geq 7$       5)  $3t + 13.50$

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Warm-Up Answers (85-112)

- |      |                        |                                    |   |                          |                        |
|------|------------------------|------------------------------------|---|--------------------------|------------------------|
| 85)  | 1) $\frac{2}{15}$      | 2) 37 homers/season                | 3) 7w                                     | 4) \$19.00               | 5) 8 units             |
| 86)  | 1) no                  | 2) $\frac{8}{5}$ or $1\frac{3}{5}$ | 3) 5                                      | 4) closed dot, to right  | 5) \$33.50             |
| 87)  | 1) 0                   | 2) $x - 7$                         | 3) see drawing                            | 4) 570 miles             | 5) \$42.00             |
| 88)  | 1) 1                   | 2) 3rd quadrant                    | 3) 13                                     | 4) 55.5                  | 5) $294 \text{ in.}^2$ |
| 89)  | 1) $1\frac{1}{3}$      | 2) 1,008                           | 3) 96 pages                               | 4) \$19.17               | 5) $548 \text{ ft.}^2$ |
| 90)  | 1) 17.44               | 2) 12                              | 3) $x = 18$                               | 4) $27.01 \text{ in.}^2$ | 5) 131                 |
| 91)  | 1) 900                 | 2) $49x^2y^2$                      | 3) $-26 > -147$                           | 4) 13.2 cm               | 5) 12, 49, 36          |
| 92)  | 1) 2.13                | 2) 2nd quadrant                    | 3) $3.84 \text{ in.}^2$                   | 4) $m \leq 12$           | 5) $y = 7x - 2$        |
| 93)  | 1) 19.536              | 2) 8k                              | 3) 15                                     | 4) open dot, to right    | 5) $880 \text{ cm.}^2$ |
| 94)  | 1) 124                 | 2) Associative x                   | 3) -14                                    | 4) \$50.32               | 5) 37.5 hours          |
| 95)  | 1) 0.0121              | 2) 93 in.                          | 3) 12                                     | 4) (3,-7)                | 5) $24x + 20y + 58$    |
| 96)  | 1) $v = 64$            | 2) 1st quadrant                    | 3) 1 : 3                                  | 4) $x > -7$              | 5) 4, 32, 25           |
| 97)  | 1) 33                  | 2) \$1.63/lb.                      | 3) 17                                     | 4) 15 in. square tiles   | 5) 38 units            |
| 98)  | 1) $x = \frac{33}{56}$ | 2) 72                              | 3) (-6,-3)                                | 4) -4, 6, -1             | 5) $133 \text{ ft.}^2$ |
| 99)  | 1) $y = 5$             | 2) 1 : 1                           | 3) 630,000                                | 4) \$8.75/hr.            | 5) $-7\frac{1}{3}$     |
| 100) | 1) 424                 | 2) 3rd quadrant                    | 3) \$20.00                                | 4) $l = 4.5 \text{ in.}$ | 5) May 29th            |
| 101) | 1) $\frac{8}{125}$     | 2) 6, 12, 18, 24, 30               | 3) (-5,-4)                                | 4) $x \leq 6$            | 5) 8 cents/lb.         |
| 102) | 1) -42                 | 2) 9 - 20                          | 3) 20 m                                   | 4) 600 mi.               | 5) $5x - 3$            |
| 103) | 1) 1, 29               | 2) yes                             | 3) $5\frac{1}{4}$ lbs.                    | 4) $>$                   | 5) 5 people            |
| 104) | 1) 70                  | 2) $56 \div 7$                     | 3) $\frac{1}{2}, \frac{5}{9}, 0.56, 58\%$ | 4) 3.4 in.               | 5) mode                |
| 105) | 1) 113.463             | 2) 4th quadrant                    | 3) 51                                     | 4) $960 \text{ ft.}^2$   | 5) $5t + 42.50$        |
| 106) | 1) 5                   | 2) Distributive                    | 3) \$3.54/ft.                             | 4) open dot, to left     | 5) $208 \text{ ft.}^2$ |
| 107) | 1) 42                  | 2) 8,100                           | 3) $10x + 16y + 35$                       | 4) $112 \text{ in.}^2$   | 5) 132                 |
| 108) | 1) 270                 | 2) yes                             | 3) $3\frac{3}{8} \text{ in.}^3$           | 4) 72.5                  | 5) 0                   |
| 109) | 1) 271                 | 2) 18                              | 3) 6 terms                                | 4) $s \leq 70$           | 5) 15 units            |
| 110) | 1) 312.88              | 2) Commutative +                   | 3) (5,4)                                  | 4) $14x - 56y - 42$      | 5) $486 \text{ cm.}^2$ |
| 111) | 1) 0.000529            | 2) $\frac{8}{19}$                  | 3) 31 : 19                                | 4) 5, -4, -9             | 5) $x < -9$            |
| 112) | 1) yes                 | 2) 61                              | 3) $15(2x + 5)$                           | 4) 374 pages             | 5) 40                  |

# 6th Grade Math Common Core Warm-Up Program

## Common Core State Standards Warm-Up Answers (113-120)

- |      |                    |                     |                        |                |                         |
|------|--------------------|---------------------|------------------------|----------------|-------------------------|
| 113) | 1) 6.7             | 2) $16x - 48y + 24$ | 3) $(7,-3)$            | 4) \$36.48     | 5) 6 units              |
| 114) | 1) 8,000           | 2) Identity +       | 3) 17                  | 4) 33 days     | 5) mean                 |
| 115) | 1) $w = 7$         | 2) 2nd quadrant     | 3) 6                   | 4) 10.8        | 5) 19 people            |
| 116) | 1) 56              | 2) \$1.49/lb.       | 3) $x - 18$            | 4) $729n^3$    | 5) 194                  |
| 117) | 1) 4.0608          | 2) 84               | 3) $(5,-9)$            | 4) $x \geq -2$ | 5) 16                   |
| 118) | 1) $125/512$       | 2) Associative +    | 3) $598 \text{ ft.}^2$ | 4) \$63.96     | 5) $77 \text{ units}^2$ |
| 119) | 1) $1 \frac{1}{3}$ | 2) 125              | 3) $(-8,7)$            | 4) $<$         | 5) $y = 8x + 17$        |
| 120) | 1) 1, 7, 49        | 2) 3rd quadrant     | 3) $-12x + 28y + 60$   | 4) 8.4         | 5) $180 \text{ in.}^2$  |

## Warm-Up 1

<p>1) Jesse collected 42 football cards and 28 baseball cards. Simplify the ratio of baseball cards to football cards in his collection.</p> <p>6.RP.1</p>	<p>4) Mark had three bags of jelly beans. If he ate <math>\frac{1}{5}</math> of a bag each day, how long would his jelly bean supply last?</p> <p>6.NS.1</p>
<p>2) <math>9,660 \div 23 =</math></p> <p>6.NS.2</p>	<p>5) Jim cuts the grass every 7 days and works in the garden every 3 days. If he cut the grass and worked in the garden on June 1st, when is the next day that he will do both of these activities?</p> <p>6.NS.4</p>
<p>3) Joanne read 84 pages in 4 hours. What is the unit rate?</p> <p>6.RP.2</p>	



## Warm-Up 2

<p>1) <math>\frac{3}{12}</math> and <math>\frac{5}{x}</math> are equivalent ratios. Solve for <math>x</math>.</p> <p>6.RP.3a</p>	<p>4) Jose wants to purchase a bike that normally sells for \$150. If the bike is on sale for 30% off, how much will he pay before tax?</p> <p>6.RP.3c</p>
<p>2)</p> $\begin{array}{r} 52.805 \\ + \underline{93.638} \end{array}$ <p>6.NS.3</p>	<p>5) Mai had 5 candy bars. She ate half of one candy bar and decided to distribute the remaining bars between her two sisters and herself. How many candy bars did each of the three girls receive?</p> <p>6.NS.2</p>
<p>3) Find the greatest common factor (GCF) of 30 and 75.</p> <p>6.RP.2</p>	

## Warm-Up 3

1) Estimate the product by rounding each number to its greatest place value.

$$2,342.7 \times 784.3 =$$

6.NS.3

4) What is the difference in elevation between High Point (673 feet above sea level) and Low Point (80 feet below sea level)?

6.NS.5

2) What is the reciprocal of  $5 \frac{2}{3}$ ?

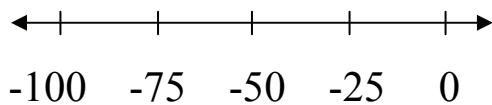
6.NS.1

5) George ate 4 slices of pizza. If this was 25% of the slices at the dinner table, how many slices were at the table to start with?

6.RP.3c

3) Solve the inequality.

$$-100 \text{ _____ } -75$$



6.NS.7a

## Warm-Up 4

1) Cheeseburgers are two for \$5.00. How much would 5 cheeseburgers cost?

6.RP.3b

2) Five and one-half feet is equal to how many inches?

6.RP.3d

3) In which quadrant is the point (4, -2) located?

6.NS.6b

4) Chen paid \$36 for some books after a 25% discount was applied. What was the original price of the books?

6.RP.3c

5) Some toy cars each have a length of  $3 \frac{1}{4}$ ". If the cars are lined up end to end, the total length is 26". How many cars are in the line?

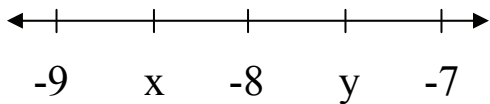
6.NS.1

## Warm-Up 5

<p>1) <math>2^6 =</math></p> <p>6.EE.1</p>	<p>4) Jason reads 126 pages in 6 hours. Joe reads 115 pages in 5 hours. How many more pages per hour does Joe read?</p> <p>6.RP.2</p>
<p>2) Name the property.</p> <p><math>5x + 2 = 2 + 5x</math></p> <p>6.EE.3</p>	<p>5) What are the largest square tiles that could completely fill up a space that is 42" x 56"?</p> <p>6.NS.4</p>
<p>3) Find the area of a rectangle where <math>l = 5</math> inches and <math>w = 4</math> inches.</p> <p>6.G.1</p>	

## Warm-Up 6

1) What is the value of point x?



6.NS.6c

4) Jasmine took four 20 point quizzes in her math class. If her scores were 18, 15, 20, and 15, what was her mean quiz score?

6.SP.5c

2)  $(.08)^2 =$

6.EE.1

5) If Ralph ran 15 miles in 5 days how far would he be expected to run in 8 days?

6.RP.2

3) Let  $s =$  the speed limit. Write an inequality to show that the maximum speed limit is 65 miles per hour.

6.EE.8

## Warm-Up 7

<p>1) <math>28,920 \div 120 =</math></p> <p>6.NS.2</p>	<p>4) Maria and Josie went to the movies and spent \$3.75 altogether on snacks. Let <math>t</math> = the price of a movie ticket. Write an expression to show how much money they spent at the movies.</p> <p>6.EE.6</p>
<p>2) Find the least common multiple (LCM) of 8 and 12.</p> <p>6.NS.4</p>	<p>5) A rectangular room measures 9 feet by 12 feet. If carpeting costs \$20.00 per square yard, what would it cost to carpet the room?</p> <p>6.G.1</p>
<p>3) A gallon of milk costs \$4.20. What is the cost per quart?</p> <p>6.RP.3b</p>	

## Warm-Up 8

<p>1) <math> -17  =</math></p> <p>6.NS.7c</p>	<p>4) Bernie's monthly phone plan can be represented by the expression <math>\\$0.10x + \\$20</math> where <math>x</math> represents the number of minutes used. If he talked for 300 minutes last month, how much was his phone bill?</p> <p>6.EE.2c</p>
<p>2) What is 50% of 125?</p> <p>6.NS.4</p>	
<p>3) Estimate the quotient using compatible numbers.</p> <p><math>63.52 \div 7.9 =</math></p> <p>6.NS.3</p>	<p>5) How much cheaper per ounce is purchasing 7 ounces for \$7.84 compared to purchasing 5 ounces for \$5.70?</p> <p>6.RP.3b</p>

## Warm-Up 9

1)  $15 + 3 \cdot 5^2 =$

6.EE.2c

2) How many pounds are in 20 ounces?

6.RP.3d

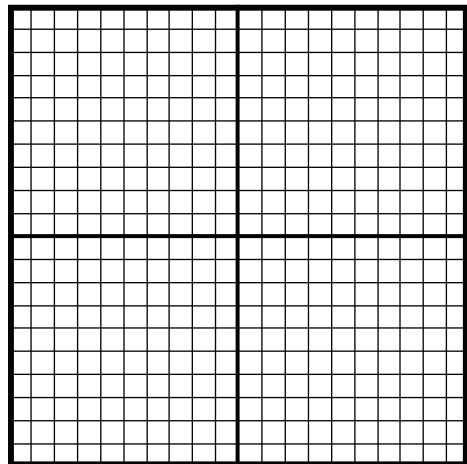
3) 
$$\begin{array}{r} 123.07 \\ - 87.59 \\ \hline \end{array}$$

6.NS.3

4) It took 5 hours to mow 4 lawns. At that rate, how long would it take to mow 7 lawns?

6.RP.3b

5) Find the distance between (7,8) and (-2,8).



6.NS.8



# Warm-Up 10

1)  $(\frac{1}{3})^3 =$

6.EE.1

2) Solve for x.  $5x + 2 = 17$

6.EE.5

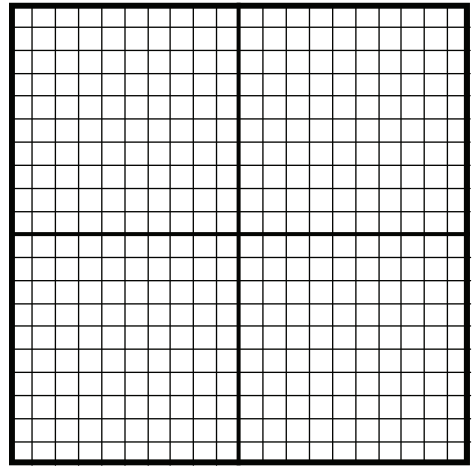
3) Starting at the origin, go right 5 and down 3. What ordered pair names this point?

6.NS.8

4) Write the ratio of ears to toes on a person (in simplest form).

6.RP.1

5) Find the perimeter of a rectangle with points at  $(-4,2)$ ,  $(4,2)$ ,  $(4,-2)$  and  $(-4,-2)$ .



6.NS.8

## Warm-Up 11

<p>1) <math>8^0 =</math></p> <p>6.EE.1</p>	<p>4) Remy orders 5 pizzas. If each person gets <math>\frac{1}{4}</math> of a pizza, how many people can Remy feed?</p> <p>6.NS.1</p>
<p>2) Write the expression using exponents. <math>7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7</math></p> <p>6.EE.1</p>	<p>5) Let <math>h =</math> height. Write an inequality to show that a child must be at least 48 inches tall to ride the rollercoaster.</p> <p>6.EE.8</p>
<p>3) Find the median of the data. 7, 5, 12, 8, 2, 9, 4</p> <p>6.SP.5c</p>	

## Warm-Up 12

<p>1) <math>8 - 4(3+2) =</math></p> <p>6.EE.2c</p>	<p>4) The stock price of the Martin Skateboard Co. was \$12.50 per share. In the next week the stock went up \$1.00, lost \$2.00, added \$0.50, increased by \$0.75, and lost \$1.25. What was the stock price at the end of the week?</p> <p>6.NS.5</p>
<p>2) <math>2/3 \div 5/9 =</math></p> <p>6.NS.1</p>	
<p>3) A large piece of furniture weighs 200 pounds. How many ounces does it weigh?</p> <p>6.RP.3d</p>	<p>5) What is the area of a square with length <math>5x</math>?</p> <p>6.EE.1</p>

## Warm-Up 13

1) List the factors of 24.

6.NS.4

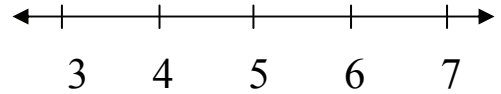
2) In which quadrant is the point  $(-3,-7)$  located?

6.NS.6b

3) Write the expression: “the product of 7 and a number  $x$ ”

6.EE.2a

4) Graph the inequality  $x > 5$ .



6.EE.8

5) The Simpson family wants to carpet three rooms of their house. The rooms (in feet) are  $12 \times 12$ ,  $20 \times 15$ , and  $10 \times 14$ . How many square feet of carpet do they need?

6.G.1

## Warm-Up 14

1)  $3.7 (5.2) =$

6.NS.3

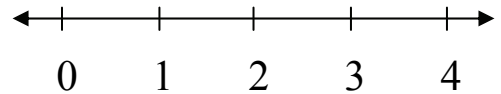
2) List the first 5 multiples of 8.

6.NS.4

3) Name the property shown.  
 $(5 + 3) + 2 = 5 + (3 + 2)$

6.EE.3

4) Graph the inequality  $x \leq 2$ .



6.EE.8

5) Find the volume of a rectangular prism that where  $l = 3$  feet,  $w = 7$  feet, and  $h = 9$  feet. ( $V = lwh$ )

6.G.2

## Warm-Up 15

1)  $-(-7) =$

6.NS.6a

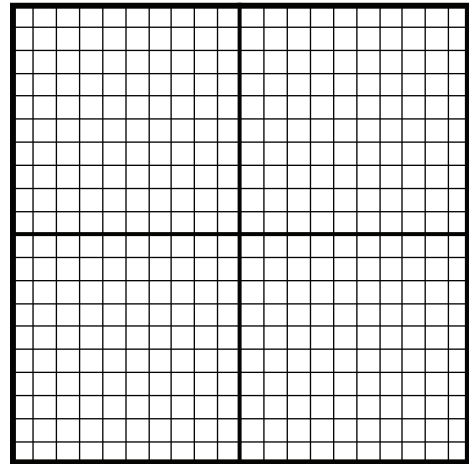
2) What is the absolute value of 27?

6.NS.7c

3) Benjamin's car travelled 161 miles while using 7 gallons of gas. What is the unit rate?

6.RP.3b

4) Find the distance between  $(5,-3)$  and  $(5,8)$ .



6.NS.8

5) Arianna was scuba diving 30 feet below the surface. Then she saw an interesting fish and went down 22 more feet to see it more closely. What integer represents her new location?

6.NS.5

## Warm-Up 16

1)  $3 \frac{3}{4} \div 4 \frac{1}{2} =$

6.NS.1

2) Evaluate the expression  $5x - 3$  when  $x = 7$ .

6.EE.2c

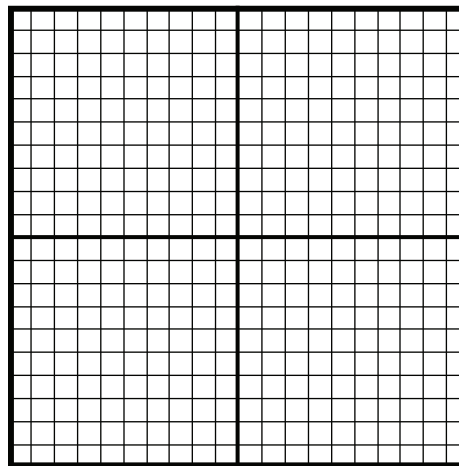
3) If Laura's account balance has gone from  $-30$  to  $-45$ , what has happened to her debt?

6.NS.7d

4) Simplify the expression  $4(2x + 8)$  using the distributive property.

6.EE.3

5) Draw and name the polygon formed by the points  $(-7,0)$ ,  $(0,4)$  and  $(7,0)$ .



6.G.3

## Warm-Up 17

1)  $25.6 \div 0.5 =$

6.NS.3

2) Write the inequality that represents “ $-5^\circ$  is warmer than  $-8^\circ$ .”

6.NS.7b

3) Evaluate  $5xy^2$  when  $x = 3$  and  $y = 2$ .

6.EE.2c

4) It cost \$5 plus \$2 per ride at the county fair. Use the expression  $5 + 2r$  to determine how much Sheila will spend if she goes on 7 rides.

6.EE.2c

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
0	4
2	10
5	19

6.EE.9



## Warm-Up 18

<p>1) <math>6 \div \frac{1}{3} =</math></p> <p>6.NS.1</p>	<p>4) Find the area of a triangle with a base of 8 cm. and a height of 10 cm.</p> <p>6.G.1</p>
<p>2) In which quadrant is the point <math>(-3,5)</math> located?</p> <p>6.NS.6b</p>	<p>5) Mr. Tully gave a math test to his class. The highest score was 100 and the lowest score was 72. What is the range of the data?</p> <p>6.SP.5c</p>
<p>3) Name the property shown. <math>3(5+7) = 3(5) + 3(7)</math></p> <p>6.EE.3</p>	

## Warm-Up 19

1) Is 42,351 divisible by 3?

6.NS.2

2) What is the ratio of weekdays to weekend days?

6.RP.1

3) How many tons are in 7,000 pounds? Give the answer as a mixed number.

6.RP.3d

4) Stella sold five items at a garage sale for \$12.50, \$2.75, \$0.50, \$20.00, and \$8.50.

How much money did she make?

6.NS.3

5) In the equation  $d = 50t$ ,  $d$  represents the total distance travelled and  $t$  represents the number of hours travelled. The speed, in miles per hour, is 50. Complete the table below.

t	d
0	
	150
5	

6.EE.9

## Warm-Up 20

1)  $3^4 =$

6.EE.1

2) Is 7 a solution to the following inequality?

$$3x - 5 > 14$$

6.EE.5

3) Henry cut a 7 foot board into 4 equal pieces. What mixed number represents the length of each piece?

6.NS.1

4) Stacy saved 30% on a single item. If she saved \$60.00, what was the cost of the item before the discount?

6.RP.3c

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
0	-3
5	7
9	15

6.EE.9

## Warm-Up 21

<p>1) <math>- -5  =</math></p> <p>6.NS.6a</p>	<p>4) What is the area of a square that has a side length of 5.2 inches?</p>
<p>2) Order these numbers from least to greatest: 0.25, <math>\frac{1}{5}</math>, 22%, and 0.251.</p> <p>6.NS.7b</p>	<p>6.G.1</p>
<p>3) Simplify the expression by combining like terms: <math>3x + 4y + y - 2x + 8x</math></p> <p>6.EE.4</p>	<p>5) Rafael's goal is to average 20 points per game in his basketball league. He has scored 24, 18, 25, and 16 points in his first four games. How many points will he need to score in game 5 to end up with a mean score of exactly 20?</p> <p>6.SP.5c</p>

## Warm-Up 22

<p>1) <math>3/8 \div 1/4 =</math></p> <p>6.NS.1</p>	<p>4) Use the formula <math>V=lwh</math> to find the length of a prism if the volume is <math>48 \text{ ft.}^3</math>, the width is 4 ft. and the height is 2 ft.</p> <p>6.G.2</p>
<p>2) Estimate the sum by rounding to the nearest whole number. <math>18.74 + 41.49 =</math></p> <p>6.NS.3</p>	
<p>3) Is 4.5 the solution to this equation? <math>10x - 6 = 38</math></p> <p>6.EE.5</p>	<p>5) Rewrite <math>36 + 8</math> using the distributive property with the greatest common factor located in front of the parentheses.</p> <p>6.NS.4</p>

## Warm-Up 23

1)  $32.7 + 1.362 + 27 =$

6.NS.3

2) Find the greatest common factor (GCF) of 24 and 60.

6.NS.4

3) Regina ate 25 grapes and 15 cashews. Simplify the ratio of grapes to cashews that she ate.

6.RP.1

4) Starting at the origin, go left 7 and down 3. What ordered pair names this point?

6.NS.8

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
0	1
6	31
9	46

6.EE.9

## Warm-Up 24

1) List the factors of 32.

6.NS.4

2) Name the property shown.

$$7(1) = 7$$

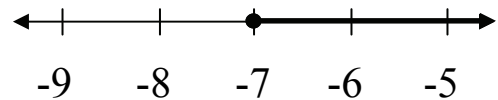
6.EE.3

3) Estimate the product by rounding each number to its greatest place value.

$$4,289.1 \times 78.647 =$$

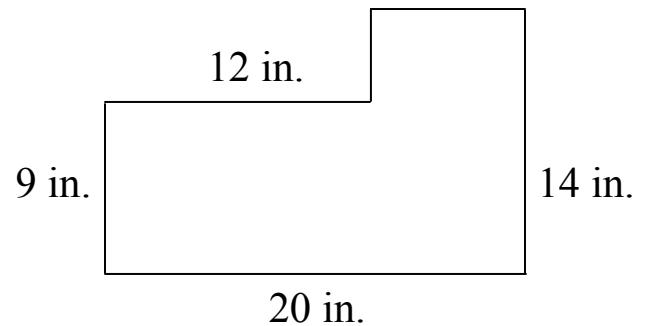
6.NS.3

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) Find the area of the compound figure below.



(drawing NOT to scale)

6.G.1

## Warm-Up 25

1)  $9^0 =$

6.EE.1

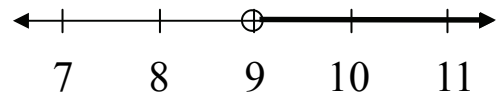
2) List the first 5 multiples of 12.

6.NS.4

3) Simplify the expression by combining like terms:  
 $4(3x) + 7 - 5x - 5 + 3y - y$

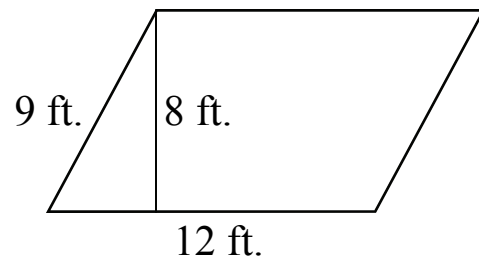
6.EE.4

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) Find the area of the parallelogram.



6.G.1



## Warm-Up 26

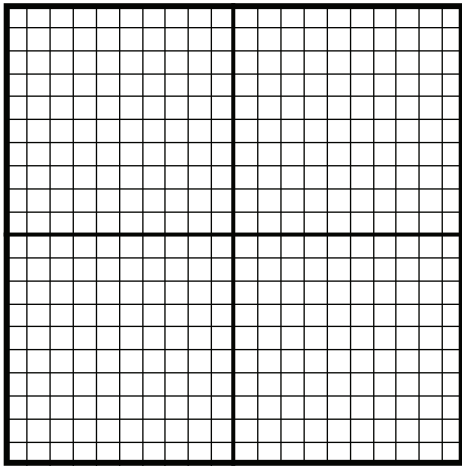
1)  $10 \frac{1}{2} \div 1 \frac{1}{2} =$

6.NS.1

2) Solve for x.  $3x + 8 = 29$

6.EE.5

3) Find the distance between (5,4) and (-6,4).



6.NS.8

4) Order these numbers from least to greatest:  $\frac{4}{5}$ , 81%, 0.78, and  $\frac{3}{4}$ .

6.NS.7b

5) If Steve read 92 pages in 4 hours, how many pages would you expect him to read in 7 hours?

6.RP.2

## Warm-Up 27

1)  $14 + 4^2 (2) - 5(6) =$

6.EE.2c

2) Name the property shown.

$12(6) = 6(12)$

6.EE.3

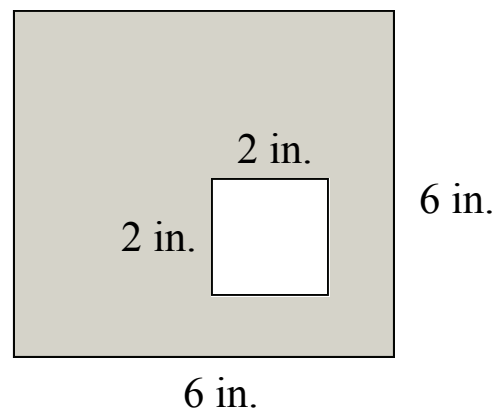
3) The temperature was  $-27^{\circ}\text{F}$  and then it dropped another 7 degrees. What was the temperature after the drop?

6.NS.5

4) Find the median in this data set: 14, 18, 22, 25, 29, and 37.

6.SP.5c

5) Find the area of the shaded region.



6.G.1

## Warm-Up 28

1)  $4.32 (5.6) =$

6.NS.3

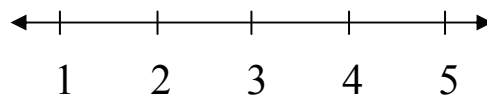
2) Julie paid \$28 for an item after a 20% discount. What was the original price?

6.RP.3c

3) Estimate the quotient using compatible numbers.  
 $31.4 \div 6.2 =$

6.NS.3

4) Graph the inequality  $x < 3$ .



6.EE.8

5) Find the volume of a rectangular prism that where  $l = 12$  feet,  $w = 2.5$  feet, and  $h = 4$  feet. ( $V = lwh$ )

6.G.2

## Warm-Up 29

<p>1) Is 48,239 divisible by 9?</p> <p>6.NS.2</p>	<p>4) Identify the coefficients in the following expression.</p> $3x + 4y - 7z + 9$ <p>6.EE.2b</p>
<p>2) How many ounces are in 7 <math>\frac{1}{2}</math> pounds?</p> <p>6.RP.3d</p>	<p>5) Joe has three more than twice the number of DVDs in his collection than Monica has. If Monica has <math>x</math> DVDs, write an expression to represent the number of DVDs in Joe's collection.</p> <p>6.EE.6</p>
<p>3) Simplify the expression by combining like terms:</p> $3(5x) + 6(3x) + x + x - 3x$ <p>6.EE.4</p>	

## Warm-Up 30

1)  $1,426 \div 62 =$

6.NS.2

2) Name the property shown.

$$(x + 5) + y = x + (5 + y)$$

6.EE.3

3) Find the least common multiple (LCM) of 6 and 9.

6.NS.4

4) Anna read 126 pages in 3 hours. Cynthia read 88 pages in 2 hours. Who read more pages per hour? How many more?

6.EE.2b

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
0	-4
5	16
11	40

6.EE.9

# Warm-Up 31

1)  $120 - 37.58 =$

6.NS.3

2) Solve for x.

$$x + 3 \frac{3}{4} = 12$$

6.EE.7

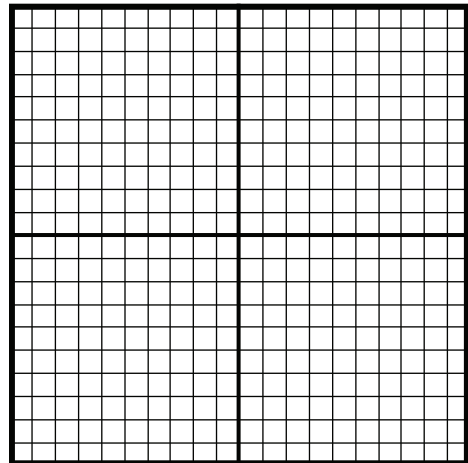
3) If the Benton Widget Co. can produce 2,382 widgets in 3 hours, find the unit rate.

6.RP.2

4) Draw a dot plot (line plot) to show how many movies Shane watched in a four week period. (from weeks 1-4 he watched 2, 4, 0, and 5)

6.SP.4

5) Find the area of a rectangle with points at  $(-3,2)$ ,  $(3,2)$ ,  $(3,-2)$  and  $(-3,-2)$ .



6.NS.8

## Warm-Up 32

1)  $63.96 \div 5.2 =$

6.NS.3

2) Solve for x.  $7x + 2 = 100$

6.EE.5

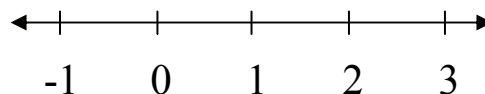
3) What is the ratio (in simplest form) of infielders to outfielders when a baseball team is playing defense during a game?

6.RP.1

4) So far, Phillip has completed  $\frac{3}{4}$  of his run. If he has run 9 miles, how far does he plan to run?

6.RP.3c

5) Graph the inequality  $x \geq 1$ .



6.EE.8

## Warm-Up 33

1)  $|73| =$

6.NS.7c

2)  $\frac{2^3 (5^2)}{10^2}$

6.EE.1

3) Estimate the product by rounding each number to its greatest place value.

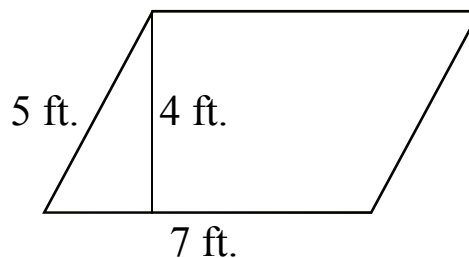
$$3,812.99 \times 62.7 =$$

6.NS.3

4) Let  $a =$  age. Write an inequality to show that a person must be at least 18 years of age to vote.

6.EE.8

5) Find the area of the parallelogram.



6.G.1



## Warm-Up 34

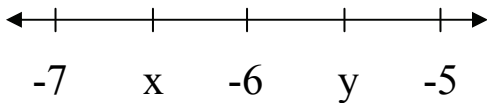
1) Is 87,234 divisible by 5?

6.NS.2

2) Write the expression for “the sum of  $x$  and 12.”

6.EE.2a

3) What is the value of point  $y$ ?



6.NS.6c

4) Find the area of the rectangle below.

2.5 in.



5.5 in.

6.EE.8

5) In the equation  $d = 65t$ ,  $d$  represents the total distance travelled and  $t$  represents the number of hours travelled. The speed, in miles per hour, is 65. Complete the table below.

$t$	$d$
2	
	325
10	

6.EE.9

## Warm-Up 35

1)  $58,520 \div 110 =$

6.NS.2

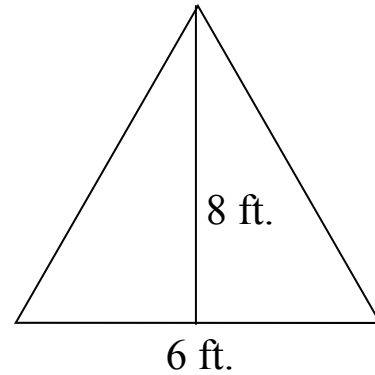
2) Find the greatest common factor (GCF) of 60 and 90.

6.NS.4

3) Which is a better buy, 5 for \$4.25 or 8 for \$6.88?

6.RP.3b

4) Find the area of the triangle below.



6.G.1

5) A set of data included the numbers 14, 32, 55, 53, 8, 17, and 24. What number could be added to the data to cause the range to be 75?

6.SP.5c

## Warm-Up 36

1)  $5/8 \div 3/4 =$

6.NS.1

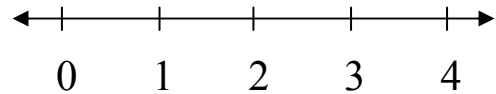
2) What is the reciprocal of 5?

6.NS.1

3) How many yards are in 20 feet? Give the answer as a mixed number.

6.RP.3d

4) Graph the inequality  $x > 2$ .



6.EE.8

5) As shown in the table below, the ratio of people at a baseball game to bags of peanuts sold is 12:1.

Complete the table by finding the number of bags expected to be sold to 480 people.

People	Peanuts
12	1
120	10
480	

6.RP.3a

## Warm-Up 37

1) Is 63,724 divisible by 4?

6.NS.2

2) Name the property shown.

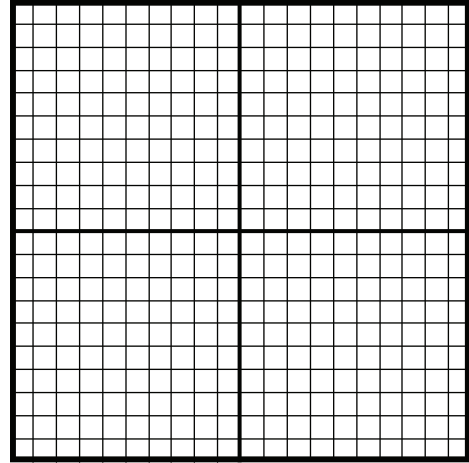
$$x + 0 = x$$

6.EE.3

3) What integer represents a scuba diver submerging 50 feet?

6.NS.5

4) Find the distance between  $(7,-1)$  and  $(7,5)$ .



6.NS.8

5) Joan earns \$7.00 per hour babysitting. Use the equation  $t = 7h$  to find  $t$ , the total money earned by Joan if she babysits for 5.5 hours.

6.EE.9

# Warm-Up 38

1)  $\frac{3}{5} \div 5 =$

6.NS.2

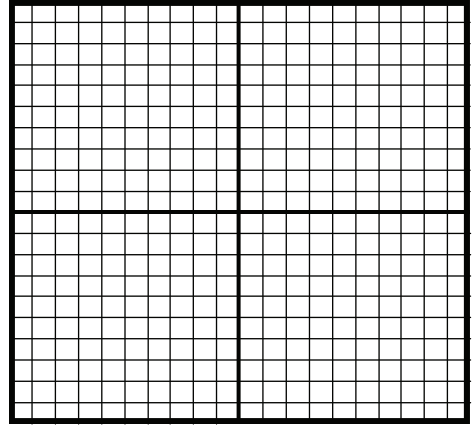
2) Write the expression for  
“5 less than x.”

6.EE.2a

3) Find the least common  
multiple (LCM) of 6 and 10.

6.NS.4

4) Find the perimeter of a  
rectangle with points at (2,2),  
(8,2), (8,7) and (2,7).



6.NS.8

5) Write the equation for the  
function table below. (Use  
the form  $y = mx + b$ .)

X	Y
0	8
6	50
11	85

6.EE.9

## Warm-Up 39

<p>1) <math>10^3 + 5^3 =</math></p> <p>6.EE.1</p>	<p>4) Stacy saved 40% on the retail price of \$200.00. How much money did she save?</p> <p>6.RP.3c</p>
<p>2) List the first 5 multiples of 7.</p> <p>6.NS.4</p>	<p>5) Simplify the expression by combining like terms: <math>4(7x) + 8(4y) - 3(5x) + 2x + 5y + x - 3x - 7 - 5 - 10y</math></p> <p>6.EE.4</p>
<p>3) What point would be the reflection, across the x-axis, for the point (7,2)?</p> <p>6.NS.6b</p>	

## Warm-Up 40

1)  $(0.12)^2 =$

6.EE.1

2) In which quadrant is the point  $(8,5)$  located?

6.NS.6b

3) How many terms are there in the following expression?

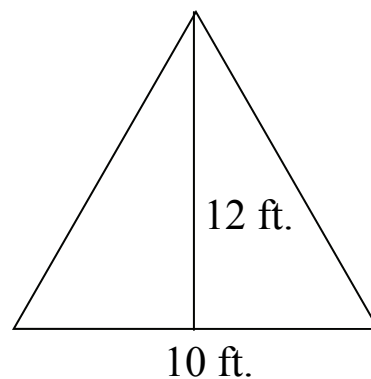
$$3x - 7 + 5x + 2 - x + 2y + 4$$

6.EE.2b

4) Let  $w =$  weight. Write an inequality to show that the maximum weight that an object can support is 1,000 pounds.

6.EE.8

5) Find the area of the triangle below.



6.G.1

## Warm-Up 41

<p>1) <math>- -12  =</math></p> <p>6.EE.1</p>	<p>4) Given three points located at <math>(-3,7)</math>, <math>(5,7)</math>, and <math>(5,1)</math>, find the coordinates for the point that will complete the rectangle.</p> <p>6.G.3</p>
<p>2) Is 10 a solution to the following inequality? <math>7x - 13 &lt; 56</math></p> <p>6.EE.5</p>	
<p>3) What is the area of a square that has a side length of <math>3x</math>?</p> <p>6.G.1</p>	<p>5) Lee's goal is to average 15 points per game in his basketball league. He has scored 12, 20, 8, and 19 points in his first four games. How many points will he need to score in game 5 to end up with a mean score of exactly 15?</p> <p>6.SP.5c</p>



## Warm-Up 42

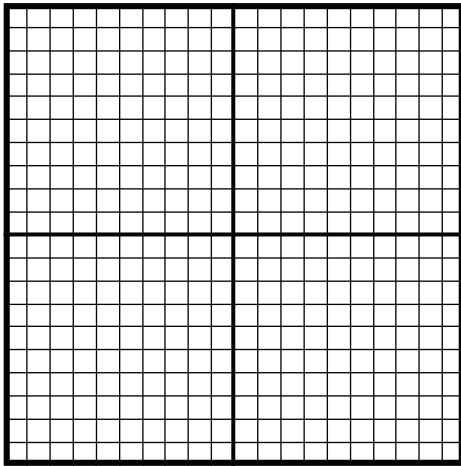
1)  $8^0 =$

6.EE.1

2) Evaluate  $5x^3y^2$  when  $x = 2$  and  $y = 4$ .

6.EE.2c

3) Find the distance between  $(1,7)$  and  $(-8,7)$ .



6.NS.8

4) Use the formula  $V=lwh$  to find the length of a prism if the volume is  $60 \text{ ft.}^3$ , the width is 5 ft. and the height is 3 ft.

6.G.2

5) Patricia has 6 less than three times the number of CDs in her collection than Monique has. If Monique has  $x$  CDs, write an expression to represent the number of CDs in Patricia's collection.

6.EE.6

## Warm-Up 43

1)  $1,904 \div 56 =$

6.NS.2

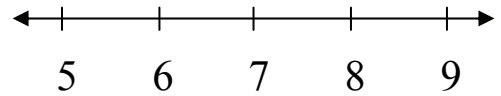
2) Use the formula  $A = 6s^2$  to find the surface area of a cube with sides that measure  $\frac{1}{2}$  inch.

6.EE.2c

3) Starting at the point  $(-5,3)$  go right 10 and down 4. What ordered pair names this new point?

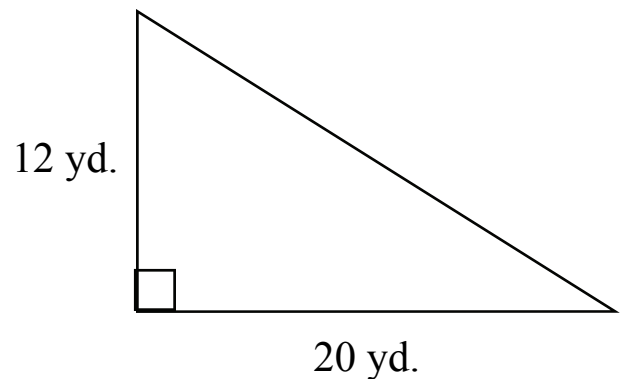
6.NS.8

4) Graph the inequality  $x \leq 7$ .



6.EE.8

5) Find the area of the right triangle below.



6.G.1

## Warm-Up 44

1)  $56 + 17.85 + 38.294 =$

6.NS.3

2) Solve for x.  $x/4 - 3 = 9$

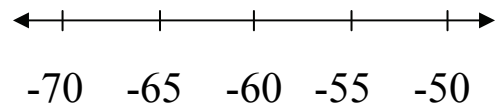
6.EE.5

3) What is the ratio (in simplest form) of eyes to noses in a classroom with 32 students and 1 teacher?

6.RP.1

4) Solve the inequality.

$$-55 \quad \underline{\hspace{1cm}} \quad -65$$



6.NS.7a

5) The vertices of a rectangular piece of land are located at  $(2,-4)$ ,  $(10,-4)$ ,  $(10,-9)$ , and  $(2,-9)$  on a coordinate drawing. If fencing costs \$20 per unit of length, what is the material cost to fence this piece of land?

6.G.3

## Warm-Up 45

1)  $(1/2)^5 =$

6.EE.1

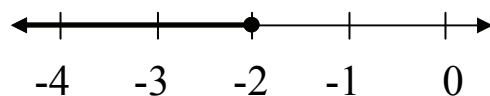
2)  $25 + 5^2 (3) - 2(6) =$

6.EE.2c

3) Find the median of the data. 18, 9, 31, 52, 7, 1, 8

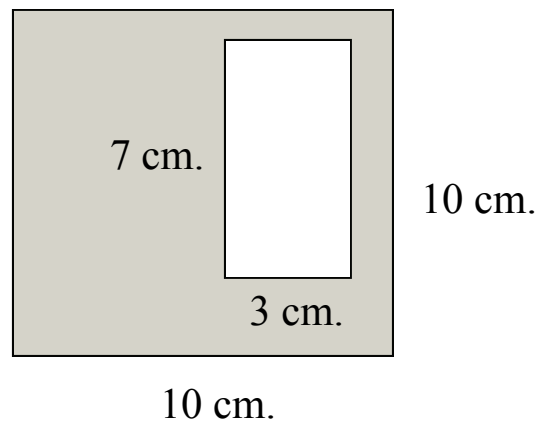
6.SP.5c

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) Find the area of the shaded region.



6.G.1

## Warm-Up 46

<p>1) Is 84,324 divisible by 3?</p> <p>6.NS.2</p>	<p>4) If Ray ran 10.5 miles in 7 days, how many miles would you expect him to run in 12 days?</p> <p>6.RP.2</p>
<p>2) Write the expression for “the quotient of 48 and 12.”</p> <p>6.EE.2a</p>	<p>5) Draw a dot plot (line plot) to show how many books Mai read in a 4 month period. (from months 1-4 she read 6, 4, 3, and 9)</p> <p>6.SP.4</p>
<p>3) Let the amount of money Felicia started with be represented by <math>x</math>. Felicia then earned \$40, spent \$22, earned \$18, and spent \$48. How much money, in terms of <math>x</math>, does Felicia have now?</p> <p>6.NS.5</p>	

## Warm-Up 47

1) List the factors of 16.

6.NS.4

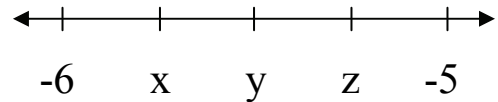
2) Solve for h.  $5h - 12 = 28$

6.EE.5

3) Apply the distributive property to the expression  $4(3x + 5y - 4)$  to produce an equivalent expression.

6.EE.3

4) Give the value of point x as a decimal.



6.NS.6c

5) As shown in the table below, the ratio of text messages in a day to students is 8 to 1. Complete the table by finding the missing values.

Texts	Students
8	1
	12
560	

6.RP.3a

## Warm-Up 48

<p>1) Solve for <math>y</math>. <math>y + \frac{2}{3} = \frac{3}{4}</math></p> <p>6.EE.7</p>	<p>4) Find the volume of a classroom where <math>l = 30</math> feet, <math>w = 30</math> feet, and <math>h = 10</math> feet. (<math>V = lwh</math>)</p> <p>6.G.2</p>
<p>2) Evaluate <math>2x^3y^2</math> when <math>x = 4</math> and <math>y = 3</math>.</p> <p>6.EE.2c</p>	
<p>3) Identify the constants in the following expression. <math>3x + 7 + 4y - 7z + 9 + 2x - 5</math></p> <p>6.EE.2b</p>	<p>5) A set of data included the numbers 19, 81, 75, 42, 33, 57, and 60. What number could be added to the data to cause the range to be 90?</p> <p>6.SP.5c</p>

## Warm-Up 49

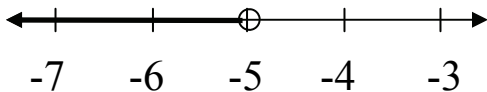
1) What is the opposite of 0?

6.NS.6a

2) Write the expression  $x \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y \cdot z$  using exponents.

6.EE.1

3) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

4) Draw a box plot (box-and-whisker plot) given the following data: mean is 62, minimum is 38, maximum is 78, lower quartile is 50 and upper quartile is 71.

6.SP.4

5) The Mendoza family wants to carpet three rooms of their house. The rooms (in feet) are 12 x 10, 20 x 18, and 11 x 13. How many square feet of carpet do they need?

6.G.1



# Warm-Up 50

1)  $|5 - 7| =$

6.NS.7c

2) Find the greatest common factor (GCF) of 36 and 54.

6.NS.4

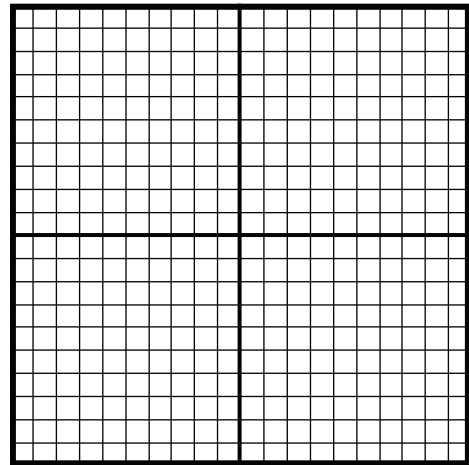
3) Stacy saved 30% on the retail price of \$600.00. How much money did she save?

6.RP.3c

4) Jackie had 3,555 collector cards that she wanted to split into 15 equal groups that she could sell on eBay. How many cards will be in each group?

6.NS.2

5) Find the distance between  $(4,-3)$  and  $(4,8)$ .



6.NS.8

## Warm-Up 51

1)  $4 \frac{1}{2} \div \frac{1}{4} =$

6.NS.1

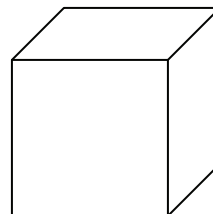
2) In which quadrant is the point  $(-2,-9)$  located?

6.NS.6b

3) Jonathan did 40 push-ups and 25 sit-ups. Simplify the ratio of sit-ups to push-ups that he did.

6.RP.1

4) Using the formula  $V = s^3$ , find the volume of a cube with sides measuring  $3x$ .



6.EE.1

5) Rewrite  $60 + 15$  using the distributive property with the greatest common factor located in front of the parentheses.

6.NS.4

## Warm-Up 52

1) What is 75% of 160?

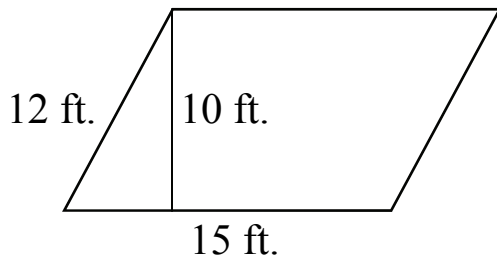
6.RP.3c

2) Name the property shown.

$$(9 + 4) + 7 = 9 + (4 + 7)$$

6.EE.3

3) Find the area of the parallelogram.



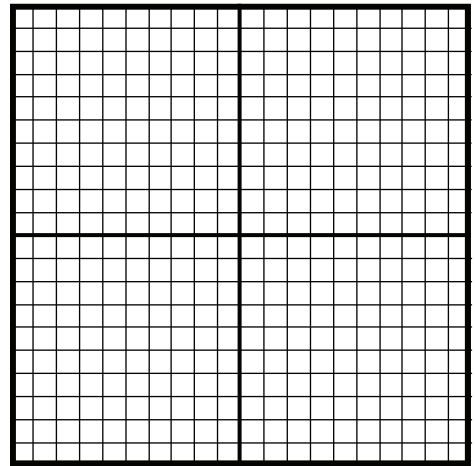
6.G.1

4) Identify the coefficients in the following expression.

$$-7x + 8y - 3z + y - 9$$

6.EE.2b

5) Find the area of a rectangle with points at  $(-8,5)$ ,  $(2,5)$ ,  $(2,-3)$  and  $(-8,-3)$ .



6.NS.8

## Warm-Up 53

1) Solve for x.  $x/8 + 5 = 14$

6.EE.5

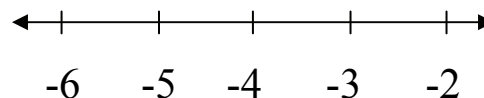
2) Find the least common multiple (LCM) of 6 and 8.

6.NS.4

3) How many inches are in  $4 \frac{3}{4}$  feet?

6.RP.3d

4) Graph the inequality  $x < -4$ .



6.EE.8

5) Given three points located at  $(-4, -4)$ ,  $(6, -4)$ , and  $(6, -7)$ , find the coordinates for the point that will complete the rectangle.

6.G.3

## Warm-Up 54

1)  $31.2 (3.8) =$

6.NS.3

2) Evaluate the expression  $3x^2 - 2x + 8$  when  $x = 5$ .

6.NS.4

3) Order these numbers from least to greatest: 0.42,  $\frac{2}{5}$ , 39%, and  $\frac{1}{3}$ .

6.NS.7b

4) The cost of a movie ticket is  $x$  and drinks cost \$2 each. Write an expression, using the distributive property, to show the cost for 5 people to go to the movie and have a drink.

6.EE.5

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
6	37
10	57
13	72

6.EE.9

## Warm-Up 55

1)  $-(-83) =$

6.NS.6a

2) Write the expression for “4 less 9.”

6.EE.2a

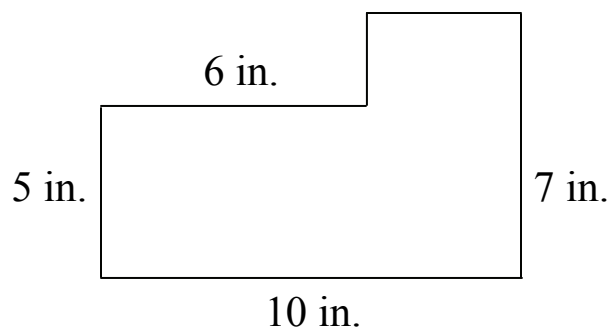
3) Starting at the point (6,2) go left 11 and down 7. What ordered pair names this new point?

6.NS.8

4) Find the median in this data set: 51, 37, 12, 22, 61, and 40.

6.SP.5c

5) Find the area of the compound figure below.



(drawing NOT to scale)

6.G.1

## Warm-Up 56

<p>1) <math>231.6 - 45.721 =</math></p> <p>6.NS.3</p>	<p>4) What point would be the reflection, across the y-axis, for the point (4,-2)?</p> <p>6.NS.6b</p>
<p>2) Write the expression for “the product of 8 and a number y.”</p> <p>6.EE.2a</p>	<p>5) How much cheaper per ounce is purchasing 6 ounces for \$6.72 compared to purchasing 3 ounces for \$3.48?</p> <p>6.RP.3b</p>
<p>3) Estimate the product by rounding each number to its greatest place value.</p> <p><math>7,143.9 \times 48.213 =</math></p> <p>6.NS.3</p>	

## Warm-Up 57

1)  $17.68 \div 3.4 =$

6.NS.3

2) Name the property.

$$3y + 7 = 7 + 3y$$

6.EE.3

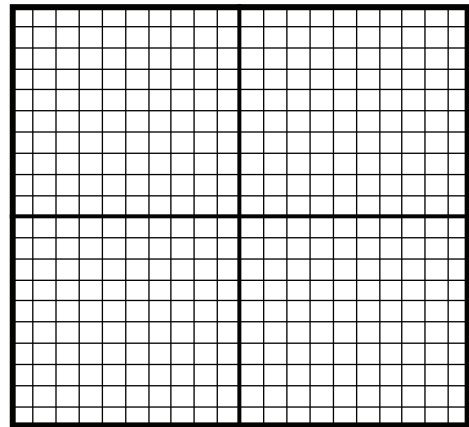
3) If Reggie's car traveled 132 miles on 5 gallons of gasoline, find the unit rate.

6.RP.2

4) Use the formula  $V=lwh$  to find the length of a prism if the volume is  $80 \text{ in.}^3$ , the width is 4 in. and the height is 5 in.

6.G.2

5) Find the perimeter of a rectangle with points at  $(-1,4)$ ,  $(7,4)$ ,  $(7,-2)$  and  $(-1,-2)$ .



6.NS.8



## Warm-Up 58

1) Solve for  $y$ .  $y - 5.2 = 8.7$

6.NS.2

2) Is 22 a solution to the following inequality?

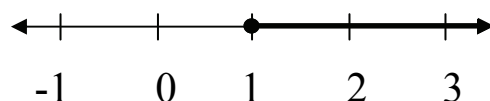
$$10x + 25 < 250$$

6.EE.5

3) Write the expression for “the sum of three times a number ( $x$ ) and 36.”

6.EE.2a

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) The cost of Awesome Company stock went up by \$5, down by \$12, up by \$32, and down by \$8 on four consecutive days. If the stock price started at \$214 per share, what integer represents the stock price at the end of the four days?

6.NS.5

## Warm-Up 59

1)  $(0.006)^2 =$

6.EE.1

2) There were 5 horses and 10 cows on a farm. What is the ratio (in simplest form) of cow legs to horse legs on this farm?

6.RP.1

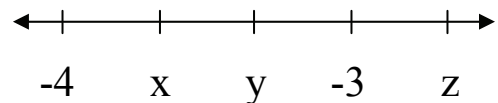
3) Apply the distributive property to the expression  $8(6x - 5y + 3)$  to produce an equivalent expression.

6.EE.3

4) Tran ate 3 cookies, which was 20% of the cookies in the cookie jar before he began to eat. How many cookies were in the jar before Tran ate three?

6.RP.3c

5) Give the value of point  $y$  as a mixed number.



6.NS.6c

## Warm-Up 60

1)  $5 \frac{1}{4} \div 2 \frac{5}{8} =$

6.NS.1

2) Evaluate the expression.  
 $(15^4 + 701 - 9^8 + 1,073)^0$

6.EE.1

3) Estimate the quotient  
using compatible numbers.

$46.97 \div 7.9 =$

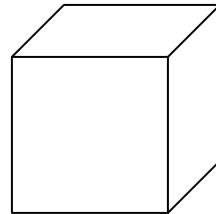
6.NS.3

4) What number must be  
added to the following data  
set to get a mean of 14?

7, 22, 18, 24, ?

6.SP.5b

5) Using the formula  $A = 6s^2$ ,  
find the surface area of a  
cube with sides measuring 8  
inches.



6.G.4

## Warm-Up 61

1)  $(\frac{2}{3})^4 =$

6.EE.1

2) What is the reciprocal of  $\frac{3}{11}$ ?

6.NS.1

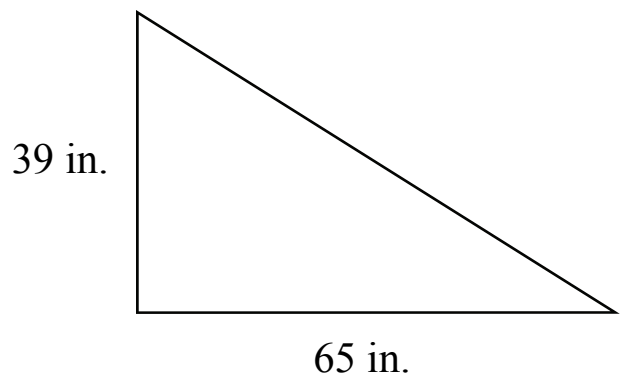
3) Find the missing number to make the ratios equivalent. 12 boys to 15 girls, 20 boys to \_\_\_ girls

6.RP.3a

4) Ricky bought 5 slices of pizza for \$2.25 each. How much change did he receive if he paid with a \$20 bill?

6.NS.3

5) Find the area of the right triangle below.



6.G.1

## Warm-Up 62

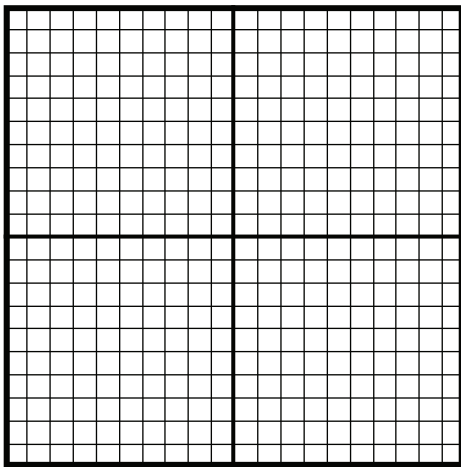
1)  $5^3 + 7^2 =$

6.EE.1

2) What point would be the reflection, across the x-axis, for the point  $(-8,-7)$ ?

6.NS.6b

3) Find the distance between  $(-5,9)$  and  $(10,9)$ .



6.NS.8

4) Charlie bought some stock in the Atlas Airplane Co. for \$53 per share. In the next three months the stock price increased by \$15, decreased by \$22 and increased by \$7. What integer represents the overall change in stock price from its \$53 purchase price?

6.NS.5

5) Larry has 14 more than four times the number of stamps in his collection than Ben has. If Ben has  $x$  stamps, write an expression to represent the number of stamps in Larry's collection.

6.EE.6

## Warm-Up 63

<p>1) <math>87 + 43.97 + 17.56 =</math></p> <p>6.NS.3</p>	<p>4) If Billy drove 2,600 miles in 8 days, how many miles would you expect him to drive in 12 days?</p> <p>6.RP.2</p>
<p>2) In which quadrant is the point <math>(-9,2)</math> located?</p> <p>6.NS.6b</p>	<p>5) Simplify the expression by combining like terms: <math>3(15x) + 7(4y) - 32 + 17</math> <math>-3(10x) - 12y + 20 - 2(5x)</math></p> <p>6.EE.4</p>
<p>3) Let the amount of money Manny started with be represented by <math>x</math>. Then Manny received \$100 as a birthday gift. He spent \$35.25, 42.75, and 15.88 on three items with this money. How much money, in terms of <math>x</math>, does Manny have now?</p> <p>6.NS.5</p>	

## Warm-Up 64

1)  $3/5 \div 11/15 =$

6.NS.1

2) Name the property shown.  
 $15(1) = 15$

6.EE.3

3) Given three points located at (3,-2), (3,-10), and (8,-10), find the coordinates for the point that will complete the rectangle.

6.G.3

4) Let  $a =$  age. Write an inequality to show that a person must be at least 55 years of age to live in the Blue Sky retirement community.

6.EE.8

5) As shown in the table below, the ratio of cars to houses in a neighborhood is 3 to 1. Complete the table by finding the missing values.

Cars	Houses
3	1
	25
90	

6.RP.3a

## Warm-Up 65

<p>1) What is 200% of 325?</p> <p>6.RP.3c</p>	<p>4) Find the perimeter of a rectangle where <math>l = 8.2</math> cm and <math>w = 12.73</math> cm.</p>
<p>2) List the first 5 multiples of 10.</p> <p>6.NS.4</p>	<p>6.NS.3</p>
<p>3) Order these numbers from greatest to least: <math>\frac{44}{50}</math>, <math>\frac{9}{10}</math>, 89%, and 0.875.</p> <p>6.NS.7b</p>	<p>5) Rylee walked 3 miles, which was 25% of her goal for the week. How many miles did Rylee plan on walking that week?</p> <p>6.RP.3c</p>



## Warm-Up 66

1)  $36 + 7^2 (4) - 3(9) =$

6.EE.2c

2) Name the property shown.

$$(t + 3) + d = t + (3 + d)$$

6.EE.3

3) Solve the inequality.

$$7x > 21$$

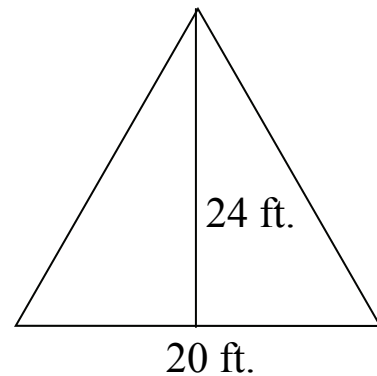
6.EE.5

4) Jasmine's job paid her a yearly salary of \$33,600.

What was her monthly salary?

6.NS.2

5) Find the area of the triangle below.



6.G.1

## Warm-Up 67

<p>1) <math>3 \frac{1}{2} \div \frac{1}{8} =</math></p> <p>6.NS.1</p>	<p>4) In which quadrant is the point (9, -7) located?</p> <p>6.NS.6b</p>
<p>2) How many feet are in <math>8 \frac{2}{3}</math> yards?</p> <p>6.RP.3d</p>	<p>5) Draw a box plot (box-and-whisker plot) given the following data: mean is 38, minimum is 15, maximum is 62, lower quartile is 23 and upper quartile is 49.</p> <p>6.SP.4</p>
<p>3) Hotdogs are two for \$3.00. How much would 7 hotdogs cost?</p> <p>6.RP.3b</p>	

## Warm-Up 68

1) Solve for  $c$ .  $8c - 5 = 83$

6.EE.5

2) Evaluate the expression  $4x^2 + 3x - 8$  when  $x = 3$ .

6.NS.4

3) Frankie had 21 blueberries and 15 raspberries in her fruit salad. Simplify the ratio of blueberries to raspberries in her fruit salad.

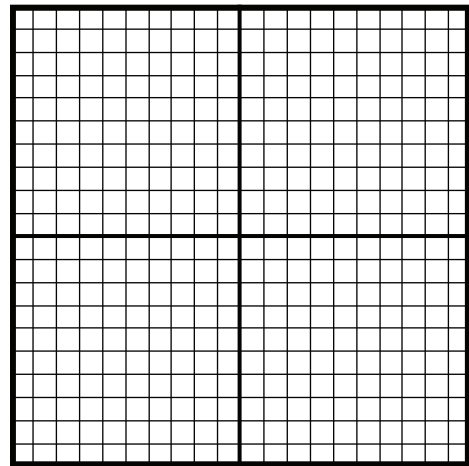
6.RP.1

4) Gina sold five items at a garage sale for \$15.25, \$8.50, \$2.50, \$30.00, and \$5.50.

Then she bought an item at her neighbors garage sale for \$12.50. How much money did she make that day?

6.NS.3

5) Find the distance between  $(-2, -5)$  and  $(-2, 7)$ .



6.NS.8

## Warm-Up 69

1)  $28,380 \div 132 =$

6.NS.2

2) Name the property shown.

$23(4) = 4(23)$

6.EE.3

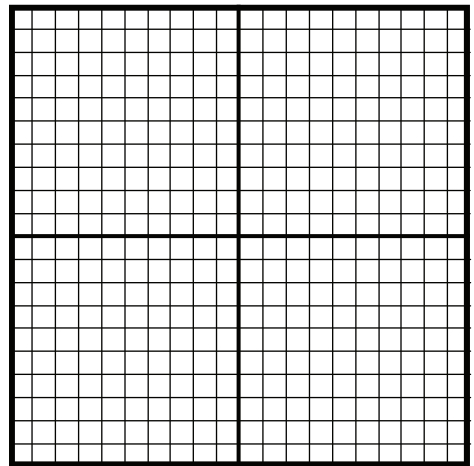
3) Use the formula  $V = s^3$  to find the volume of a cube with sides that measure  $\frac{1}{2}$  inch.

6.EE.2c

4) Find the volume of a box where  $l = 10$  inches,  $w = 6$  inches, and  $h = 4.5$  inches.  
( $V = lwh$ )

6.G.2

5) Find the area of a rectangle with points at  $(-8,7)$ ,  $(-1,7)$ ,  $(-1,2)$  and  $(-8,2)$ .



6.NS.8

## Warm-Up 70

1) List the factors of 15.

6.NS.4

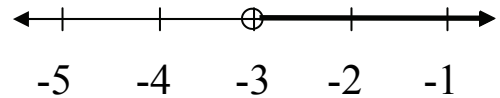
2) What is the absolute value of -38?

6.NS.7c

3) Lester ate  $\frac{2}{3}$  of the chocolates in the box. If he ate 18 chocolates, how many were in the box?

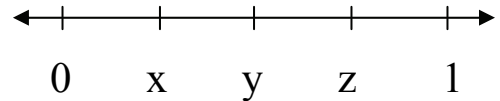
6.RP.3c

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) Give the value of point  $z$  as a decimal.



6.NS.6c

## Warm-Up 71

1)  $43.7 (2.6) =$

6.NS.3

2) Name the property shown.

$$(k + 7) + m = (7 + k) + m$$

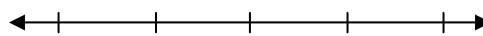
6.EE.3

3) Find the median in this data set: 88, 15, 63, 32, 12, 74 and 53.

6.SP.5c

4) Solve the inequality.

$$-73 \underline{\hspace{1cm}} -51$$



-90 -80 -70 -60 -50

6.NS.7a

5) Rewrite  $48 + 40$  using the distributive property with the greatest common factor located in front of the parentheses.

6.NS.4

## Warm-Up 72

1) Solve for b.  $b/4 - 3 = 2$

6.EE.5

2) Find the greatest common factor (GCF) of 25 and 42.

6.NS.4

3) If Tameka swam 276 laps in 12 days, find the unit rate.

6.RP.2

4) What point would be the reflection, across the y-axis, for the point  $(-3,8)$ ?

6.NS.6b

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
8	22
12	34
20	58

6.EE.9

## Warm-Up 73

1)  $(0.012)^2 =$

6.EE.1

2) Estimate the sum by rounding to the nearest whole number.  $65.28 + 14.72 =$

6.NS.3

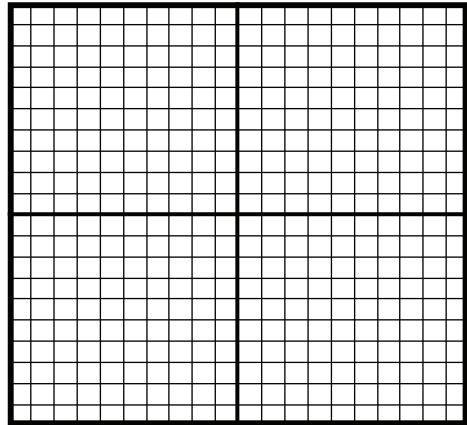
3) What integer represents a drop in temperature of 12 degrees?

6.NS.5

4) Fran paid \$33 for an item after a 25% discount. What was the original price?

6.RP.3c

5) Find the perimeter of a rectangle with points at  $(3,-4)$ ,  $(10,-4)$ ,  $(10,-9)$  and  $(3,-9)$ .



6.NS.8



## Warm-Up 74

1)  $726.2 - 85.37 =$

6.NS.3

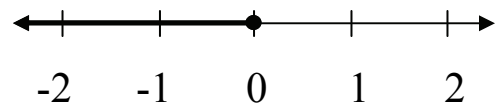
2) Write the expression for “the product of 3 and a number  $c$ .”

6.EE.2a

3) Sarah counted 51 white cars and 17 blue cars driving past her location. What is the ratio (in simplest form) of white cars to blue cars that she counted?

6.RP.1

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) The vertices of a rectangular piece of land are located at  $(-3, -8)$ ,  $(-10, -8)$ ,  $(-10, -1)$ , and  $(-3, -1)$  on a coordinate drawing. If fencing costs \$25 per unit of length, what is the cost of the fencing material?

6.G.3

## Warm-Up 75

1)  $6^3 + 10^2 =$

6.EE.1

2) Name the property shown.

$$4(x+6) = 4(x) + 4(6)$$

6.EE.3

3) Estimate the product by rounding each number to its greatest place value.

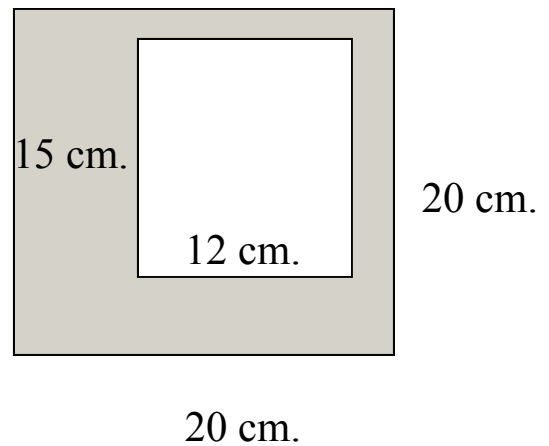
$$3,821.4 \times 53.78 =$$

6.NS.3

4) Apply the distributive property to the expression  $8(3x + 7y - 4)$  to produce an equivalent expression.

6.EE.3

5) Find the area of the shaded region.



6.G.1

## Warm-Up 76

<p>1) <math>- -82  =</math></p> <p>6.EE.1</p>	<p>4) Vanessa left a 15% tip for her waiter. If she left \$3.00, what was the amount of the bill?</p> <p>6.RP.3c</p>
<p>3) Find the least common multiple (LCM) of 4 and 10.</p> <p>6.NS.4</p>	<p>5) How much cheaper per ounce is purchasing 8 ounces for \$8.32 compared to purchasing 5 ounces for \$5.60?</p> <p>6.RP.3b</p>
<p>3) If Laura's account balance has gone from -32 to -126, what has happened to her debt?</p> <p>6.NS.7d</p>	

## Warm-Up 77

1)  $64 + 56.84 + 32.873 =$

6.NS.3

2) Write an expression for the number of eggs in  $x$  dozen.

6.EE.6

3) Estimate the quotient using compatible numbers.

$61.32 \div 11.7 =$

6.NS.3

4) What is the height of a triangle if the base is 20 m and the area is  $50 \text{ m}^2$ ?

6.G.1

5) The ratio of cats to dogs in a neighborhood is 4 to 3. Complete the table by finding the missing values.

Cats	Dogs
8	
	21
64	

6.RP.3a

## Warm-Up 78

1)  $|-8 - 7| =$

6.NS.7c

2) Is 7 a solution for the inequality  $4x - 2 > 30$ ?

6.EE.5

3) Starting at the point  $(-3, 2)$  go left 9 and down 8. What ordered pair gives the location of this new point?

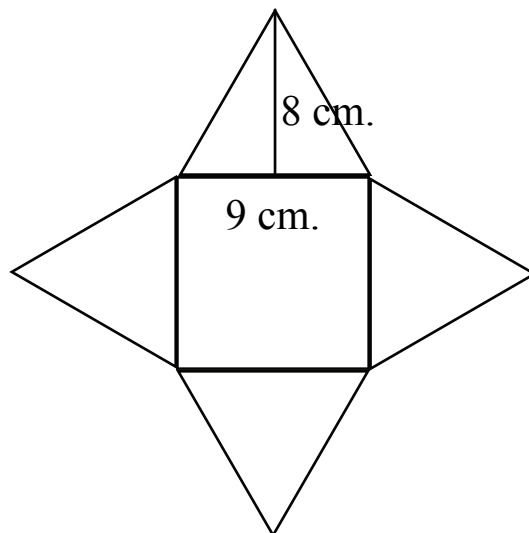
6.NS.8

4) Identify the coefficients in the following expression.

$$-2x + 8y - 3z + 1$$

6.EE.2b

5) Use the net below to find the surface area of the square pyramid.



6.G.4

## Warm-Up 79

1) Is 24,818 divisible by 9?

6.NS.2

2) Name the property shown.

$$(y \cdot 7) \cdot d = y \cdot (7 \cdot d)$$

6.EE.3

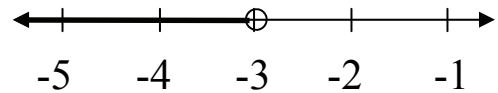
3) A yard of material costs \$7.20. What is the cost per foot?

6.RP.3b

4) Given three points located at  $(4,2)$ ,  $(4,7)$ , and  $(-2,2)$ , find the coordinates for the point that will complete the rectangle.

6.G.3

5) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

## Warm-Up 80

<p>1) Solve for <math>y</math>. <math>y + 6.8 = 9.2</math></p> <p>6.NS.2</p>	<p>4) Identify the constants in the following expression.</p> $5x + 2 + 8y - 3z + 4 + x - 6$ <p>6.EE.2b</p>
<p>2) How many pounds are in 56 ounces?</p> <p>6.RP.3d</p>	<p>5) Trisha wants to achieve a test average of 90 in her math class. She has scored 92, 78, 96, and 93 points on her first four tests. How many points will she need to score on test 5 to end up with a mean score of exactly 90?</p> <p>6.SP.5c</p>
<p>3) Write one number that is a solution to the inequality.</p> $7x + 2 < 37$ <p>6.EE.5</p>	

# Warm-Up 81

1)  $(\frac{3}{4})^3 =$

6.EE.1

2) In which quadrant is a point with  $(+,-)$  located?

6.NS.6b

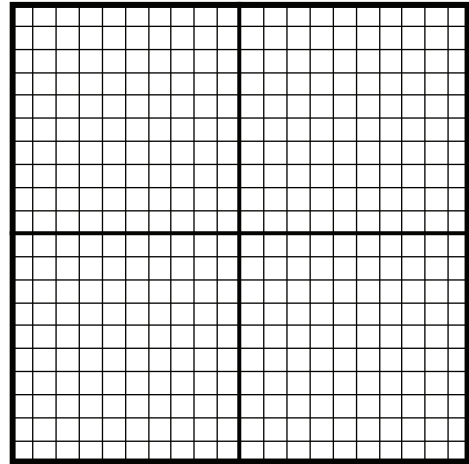
3) Sean watched 25 football games and 40 basketball games in one year. Simplify the ratio of basketball games to football games that he watched.

6.RP.1

4) What is the difference in elevation between Jansen Hill (892 feet above sea level) and Beaker Valley (53 feet below sea level)?

6.NS.5

5) Find the distance between  $(-4,-3)$  and  $(8,-3)$ .



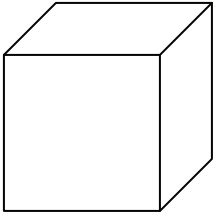
6.NS.8



## Warm-Up 82

<p>1) <math>6 \frac{2}{3} \div \frac{5}{6} =</math></p> <p>6.NS.1</p>	<p>4) Use the formula <math>V=lwh</math> to find the length of a prism if the volume is <math>100 \text{ ft.}^3</math>, the width is 2.5 ft. and the height is 8 ft.</p> <p>6.G.2</p>
<p>2) Solve for x.</p> <p><math>x - 5 \frac{1}{2} = 22 \frac{1}{4}</math></p> <p>6.EE.7</p>	
<p>3) Simplify the expression <math>7(3x - 6)</math> using the distributive property.</p> <p>6.EE.3</p>	<p>5) Five houses in a neighborhood have recently sold. The sale prices were \$215,000, \$198,000, \$210,000, \$220,000 and \$1,000,000. Which measure of center (mean, median, or mode) would best describe the average sale price?</p> <p>6.SP.5d</p>

## Warm-Up 83

<p>1) <math>4 \frac{1}{4} \div \frac{1}{8} =</math></p> <p>6.NS.1</p>	<p>4) Using the formula <math>V = s^3</math>, find the volume of a cube with sides measuring <math>5y</math>.</p>  <p>6.EE.1</p>
<p>2) What is the ratio of days to months in a year?</p> <p>6.RP.1</p>	<p>5) Simplify the expression by combining like terms:</p> $4(10x) + 3(2y) - 18 + 17$ $-5(8x) - 3y + 30 + 3(8x)$ <p>6.EE.4</p>
<p>3) Write the expression for “the sum of five times a number (<math>w</math>) and 18.”</p> <p>6.EE.2a</p>	

## Warm-Up 84

1)  $|40 - 45| =$

6.NS.7c

2) Name the property shown.

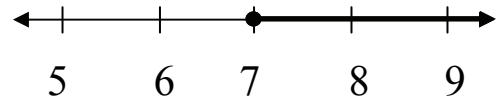
$$8(y+2) = 8(y) + 8(2)$$

6.EE.3

3) What point would be the reflection, across the x-axis, for the point  $(-4,6)$ ?

6.NS.6b

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) Josh, Tim, and Katie went to the baseball game and each one spent \$4.50 on snacks. Let  $t$  = the price of a ticket. Write an expression to show how much money they spent altogether at the baseball game.

6.EE.6

## Warm-Up 85

1) Solve for  $y$ .  $y + 1/5 = 1/3$

6.EE.7

2) If Sam hit 185 home runs in 5 seasons, find the unit rate.

6.RP.2

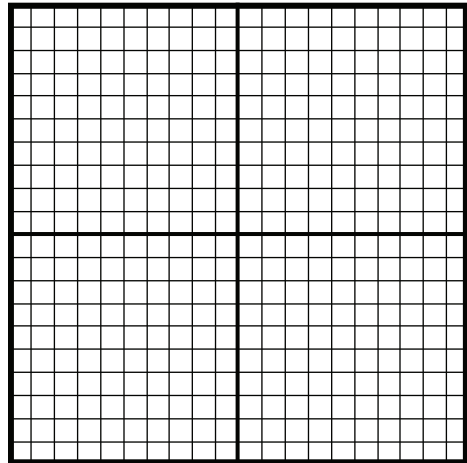
3) Write a product to create an equivalent expression for  $w + w + w + w + w + w + w$ .

6.EE.3

4) The carnival entrance fee is \$7.00 and it costs \$1.50 per ride. Use the expression  $1.50r + 7$  to determine how much Sheila will spend if she goes on 8 rides.

6.EE.2c

5) Find the distance between  $(3,-7)$  and  $(3,1)$ .



6.NS.8

## Warm-Up 86

1) Is 73,322 divisible by 4?

6.NS.2

2) What is the reciprocal of  $\frac{5}{8}$ ?

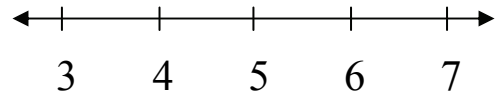
6.NS.1

3) How many terms are there in the following expression?

$$5x - 3 + 2x + 8 - 7x$$

6.EE.2b

4) Graph the inequality  $x \geq 5$ .



6.EE.8

5) The stock price of the Way Cool Surfboard Co. was \$30.25 per share. In the next week the stock went up \$3.00, lost \$1.75, added \$2.50, increased by \$1.75, and lost \$2.25. What was the stock price at the end of the week?

6.NS.5

## Warm-Up 87

<p>1) What is the opposite of 0?</p> <p>6.NS.6a</p>	<p>4) If Helga cycled 342 miles in 6 days, how many miles would you expect her to cycle in 10 days?</p> <p>6.RP.2</p>
<p>2) Write the expression for “7 less than x.”</p> <p>6.EE.2a</p>	<p>5) Cho’s monthly phone plan can be represented by the expression <math>\\$0.15x + \\$12</math> where <math>x</math> represents the number of minutes used. If he talked for 200 minutes last month, how much was his phone bill?</p> <p>6.EE.2c</p>
<p>3) Draw a box plot (box-and-whisker plot) given the following data: mean is 83, minimum is 61, maximum is 98 , lower quartile is 73 and upper quartile is 92.</p> <p>6.SP.4</p>	

## Warm-Up 88

1)  $x^0 =$

6.EE.1

2) In which quadrant is a point with  $(-, -)$  located?

6.NS.6b

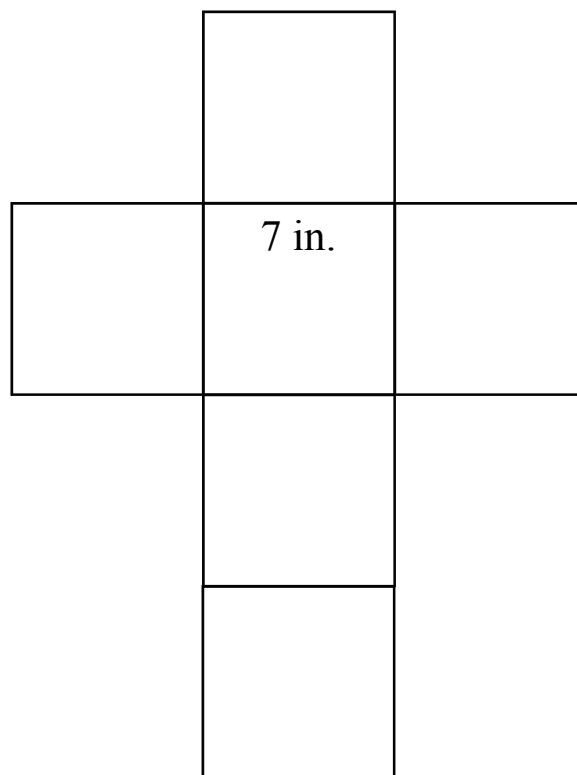
3) Find the greatest common factor (GCF) of 26 and 39.

6.NS.4

4) Find the median in this data set: 38, 59, 17, 92, 52, and 84.

6.SP.5c

5) Use the net below to find the surface area of the cube.



6.G.4

## Warm-Up 89

<p>1) <math>\frac{3}{8} \div \frac{9}{32} =</math></p> <p>6.NS.1</p>	<p>4) Mark and his 3 siblings are to collect an even share of \$76.68. How much will each person receive?</p> <p>6.NS.3</p>
<p>2) Evaluate <math>7x^2y^4</math> when <math>x = 3</math> and <math>y = 2</math>.</p> <p>6.EE.2c</p>	<p>5) The Chen family wants to carpet three rooms of their house. The rooms (in feet) are <math>12 \times 8</math>, <math>20 \times 16</math>, and <math>11 \times 12</math>. How many square feet of carpet do they need?</p> <p>6.G.1</p>
<p>3) Maren read <math>\frac{3}{4}</math> of the pages in her book. If she read 72 pages, how many pages were in the book?</p> <p>6.RP.3c</p>	



## Warm-Up 90

1) Solve for k.  $k - 7.9 = 9.54$

6.NS.2

2) Find the least common multiple (LCM) of 6 and 12.

6.NS.4

3)  $\frac{8}{12}$  and  $\frac{12}{x}$  are equivalent ratios. Solve for x.

6.RP.3a

4) Find the area of the rectangle below.

3.7 in.



7.3 in.

6.EE.8

5) A set of data included the numbers 61, 17, 85, 22, 94, 32, and 74. What number could be added to the data to cause the range to be 114?

6.SP.5c

## Warm-Up 91

1)  $72,000 \div 80 =$

6.NS.2

2) What is the area of a square with side length  $7xy$ ?

6.NS.6b

3) Write the inequality that represents “owing \$26.00 is better than owing \$147.00.”

6.NS.7b

4) What is the height of a parallelogram if the area is  $59.4 \text{ cm.}^2$  and the base is  $4.5 \text{ cm.}$ ?

6.EE.2b

5) The ratio of CDs to DVDs in three different homes is 7 to 3. Complete the table by finding the missing values.

CDs	DVDs
28	
	21
84	

6.RP.3a

## Warm-Up 92

1)  $7.881 \div 3.7 =$

6.NS.3

2) In which quadrant is a point with  $(-,+)$  located?

6.NS.6b

3) Use the formula  $A = 6s^2$  to find the surface area of a cube with sides that measure 0.8 of an inch.

6.EE.2c

4) Let  $m$  = the maximum number of passengers that can ride in a van . Write an inequality to show that no more than 12 people may ride in the van at one time.

6.EE.8

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
3	19
20	138
100	698

6.EE.9

## Warm-Up 93

1)  $5.28 (3.7) =$

6.NS.3

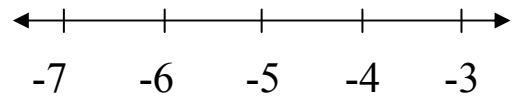
2) Write the expression for “the product of 8 and a number k.”

6.EE.2a

3) Find the missing number to make the ratios equivalent.  
8 red marbles to 12 blue marbles, 10 red marbles to \_\_\_\_\_ blue marbles

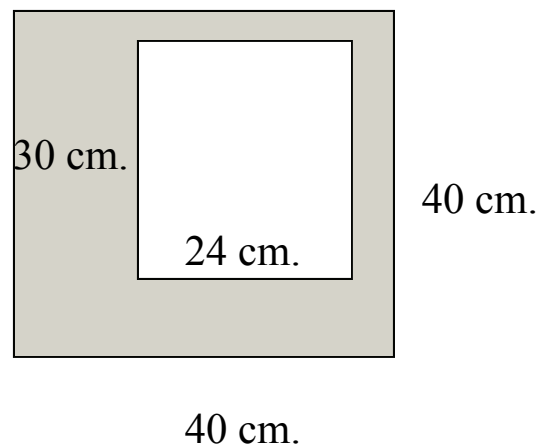
6.RP.3a

4) Graph the inequality  $x > -5$ .



6.EE.8

5) Find the area of the shaded region.



6.G.1

## Warm-Up 94

<p>1) <math>26,040 \div 210 =</math></p> <p>6.NS.2</p>	<p>4) Damon spent 75% of his money at the sporting goods store. If he had \$12.58 left, how much money did he start with?</p> <p>6.RP.3c</p>
<p>2) Name the property shown. <math>(w \cdot 9) \cdot h = w \cdot (9 \cdot h)</math></p> <p>6.EE.3</p>	
<p>3) The temperature was <math>-5^{\circ}\text{F}</math>. Then it dropped 9 degrees. What integer represents the new temperature?</p> <p>6.NS.5</p>	<p>5) If Ralph watched 17.5 hours of TV in 7 days, how many hours of TV would you expect him to watch in 15 days?</p> <p>6.RP.2</p>

## Warm-Up 95

1) $(0.11)^2 =$  6.EE.1	4) Given three points located at $(-5,3)$ , $(-5,-7)$ , and $(3,3)$ , find the coordinates for the point that will complete the rectangle.  6.G.3
2) How many inches are in $7 \frac{3}{4}$ feet?  6.RP.3d	5) Simplify the expression by combining like terms: $3(8x) + 5(6y) - 25 + 72$ $-3(6x) - 10y + 11 + 2(9x)$  6.EE.4
3) Estimate the quotient using compatible numbers. $82.91 \div 6.83 =$  6.NS.3	

## Warm-Up 96

1) Solve for  $v$ .  $v/8 + 3 = 11$

6.EE.5

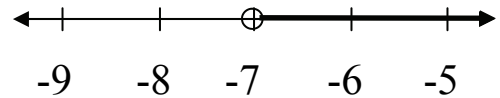
2) In which quadrant is a point with  $(+,+)$  located?

6.NS.6b

3) The students at a party ate 63 slices of pizza and drank 21 sodas. Simplify the ratio of sodas to pizza slices that they ate.

6.RP.1

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) The ratio of swings to slides is 4 to 1. Complete the table by finding the missing values.

Swings	Slides
16	
	8
100	

6.RP.3a

# Warm-Up 97

1)  $5 \frac{1}{2} \div \frac{1}{6} =$

6.NS.1

2) If a 3 lb. watermelon is \$4.89, find the unit rate.

6.RP.2

3) What number must be added to the following data set to get a mean of 22?

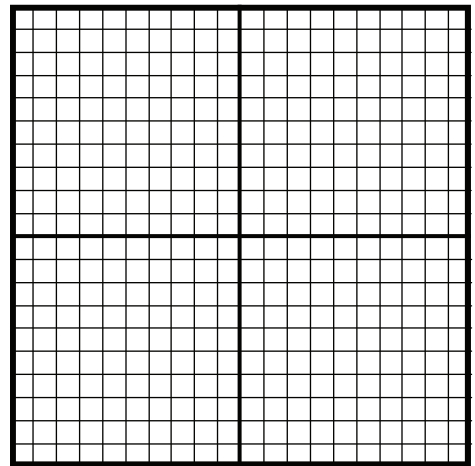
15, 28, 31, 19, ?

6.SP.5b

4) What are the largest square tiles that could completely fill up a space that is 45" x 60"?

6.NS.4

5) Find the perimeter of a rectangle with points at (-4,5), (8,5), (8,-2) and (-4,-2).



6.NS.8



## Warm-Up 98

1) Solve for x.  $x + 1/8 = 5/7$

6.EE.7

2) What is the absolute value of 72?

6.NS.7c

3) Starting at the point (1,2) go left 7 and down 5. What ordered pair names this new point?

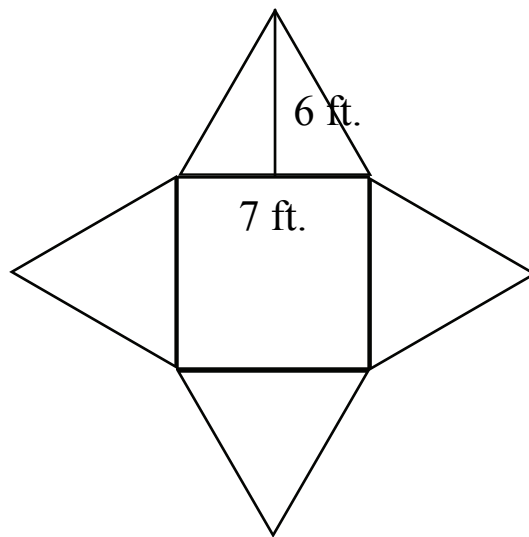
6.NS.8

4) Identify the constants in the following expression.

$$3x - 4 + 5y - 8z + 6 + 2x - 1$$

6.EE.2b

5) Use the net below to find the surface area of the square pyramid.



6.G.4

## Warm-Up 99

1) Solve for  $y$ .  $8y - 7 = 33$

6.EE.5

2) What is the ratio of arms to eyes on a person?

6.RP.1

3) Estimate the product by rounding each number to its greatest place value.

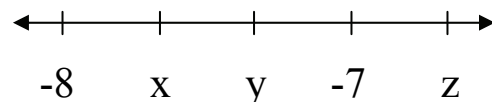
$$732.89 \times 864.7 =$$

6.NS.3

4) Rob makes \$70.00 per day on an 8-hour shift at his job. What is his hourly wage?

6.NS.2

5) Give the value of point  $y$  as a mixed number.



6.NS.6c

## Warm-Up 100

<p>1) <math>7^3 + 9^2 =</math></p> <p>6.EE.1</p>	<p>4) Use the formula <math>V=lwh</math> to find the length of a prism if the volume is <math>108 \text{ in.}^3</math>, the width is 4 in. and the height is 6 in.</p> <p>6.G.2</p>
<p>2) In which quadrant is the point <math>(-5,-3)</math> located?</p> <p>6.NS.6b</p>	
<p>3) Used hardcover books are 3 for \$5.00. How much would 12 used hardcover books cost?</p> <p>6.RP.3b</p>	<p>5) Sheila vacuums every 8 days and dusts the house every 6 days . If she vacuums and dusts on May 5th, when is the next day that she will do both of these activities?</p> <p>6.NS.4</p>

## Warm-Up 101

1)  $(\frac{2}{5})^3 =$

6.EE.1

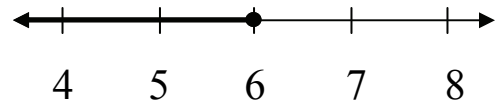
2) List the first 5 multiples of 6.

6.NS.4

3) What point would be the reflection, across the y-axis, for the point (5,-4)?

6.NS.6b

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) How much cheaper per pound is purchasing 6 pounds for \$12.42 compared to purchasing 4 pounds for \$8.60?

6.RP.3b

## Warm-Up 102

<p>1) <math>- -42  =</math></p> <p>6.NS.6a</p>	<p>4) Jason drove <math>\frac{4}{5}</math> of the way to his destination. If he drove 480 miles, what is the total distance of his trip?</p> <p>6.RP.3c</p>
<p>2) Write the expression for “9 less 20.”</p> <p>6.EE.2a</p>	<p>5) Anita has 3 less than 5 times the number of pairs of shoes that Elise has. If Elise has <math>x</math> pairs of shoes, write an expression to represent the number of pairs of shoes that Anita has.</p> <p>6.EE.6</p>
<p>3) What is the height of a triangle if the base is 20 m and the area is <math>200 \text{ m}^2</math>?</p> <p>6.G.1</p>	

## Warm-Up 103

1) List the factors of 29.

6.NS.4

2) Is 12 a solution for the inequality  $7x + 4 > 85$ ?

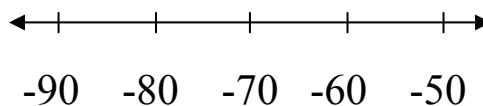
6.EE.5

3) How many pounds are in 84 ounces? Give the answer as a mixed number.

6.RP.3d

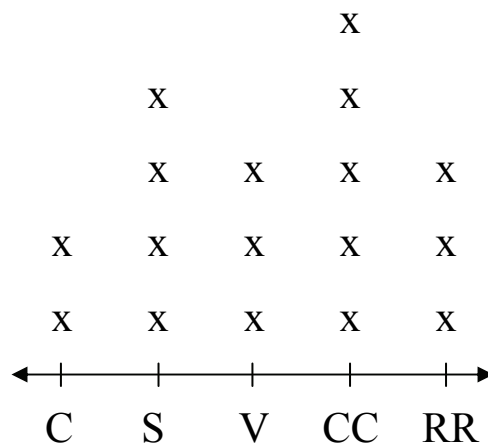
4) Solve the inequality.

$$-55 \quad \underline{\hspace{1cm}} \quad -83$$



6.NS.7a

5) Seventeen people were asked which of these five flavors of ice cream they prefer? How many people chose chocolate chip?



6.SP.5a

## Warm-Up 104

<p>1) <math>42,000 \div 600 =</math></p> <p>6.NS.2</p>	<p>4) What is the height of a parallelogram if the area is <math>24.48 \text{ in.}^2</math> and the base is <math>7.2 \text{ in.}</math>?</p> <p>6.G.1</p>
<p>2) Write the expression for “the quotient of 56 and 7.”</p> <p>6.EE.2a</p>	<p>5) The Shoe Mall had a sale and sold many pairs of shoes. Which measure of center (mean, median, or mode) would be most helpful when the Shoe Mall places its next shoe order?</p> <p>6.SP.5d</p>
<p>3) Order these numbers from least to greatest: <math>0.56</math>, <math>\frac{5}{9}</math>, <math>58\%</math>, and <math>\frac{1}{2}</math>.</p> <p>6.NS.7b</p>	

## Warm-Up 105

1)  $38.49 + 7.973 + 67 =$

6.NS.3

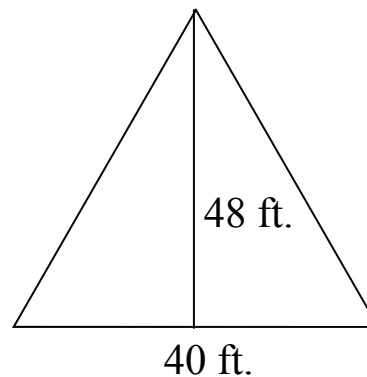
2) In which quadrant is the point  $(2, -8)$  located?

6.NS.6b

3) Find the median in this data set: 24, 78, 99, 16, 32, 51 and 76.

6.SP.5c

4) Find the area of the triangle below.



6.G.1

5) John went to five hockey games and at each one he bought the exact same snacks for \$8.50. Let  $t$  = the price of a ticket. Write an expression to show how much money John spent at the five hockey games.

6.EE.6



## Warm-Up 106

1)  $|5^2 - 30| =$

6.NS.7c

2) Name the property shown.

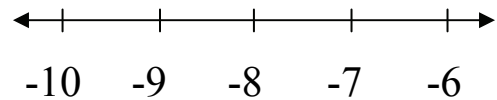
$$7(5+2) = 7(5) + 7(2)$$

6.EE.3

3) Three yards of material are on sale for \$31.86. What is the cost per foot?

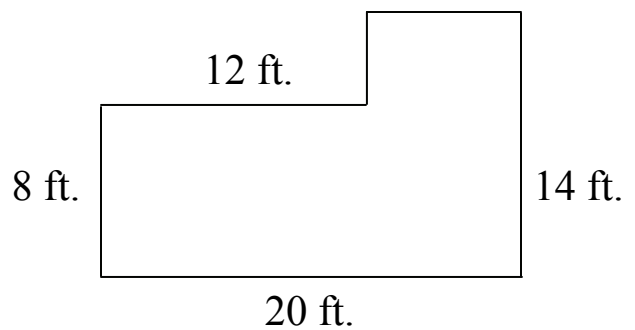
6.RP.3b

4) Graph the inequality  $x < -8$ .



6.EE.8

5) Find the area of the compound figure below.



(drawing NOT to scale)

6.G.1

## Warm-Up 107

1)  $2,142 \div 51 =$

6.NS.2

2) Evaluate  $4x^2y^4$  when  $x = 5$  and  $y = 3$ .

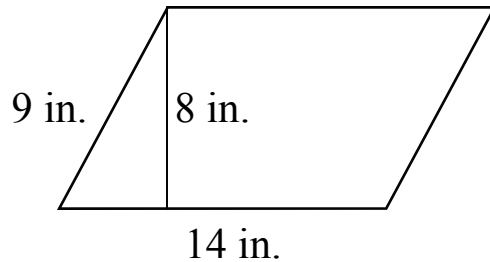
6.EE.2c

3) Simplify the expression by combining like terms:

$$4(3x) + 5(4y) - 13 + 26 - 2(8x) - 4y + 22 + 7(2x)$$

6.EE.4

4) Find the area of the parallelogram.



6.G.1

5) A set of data included the numbers 55, 68, 27, 52, 60, 84, and 30. What number could be added to the data to cause the range to be 105?

6.SP.5c

## Warm-Up 108

<p>1) <math>5^3 + 2^6 + 3^4</math></p> <p>6.EE.1</p>	<p>4) Find the median in this data set: 95, 83, 26, 31, 70, and 75.</p>
<p>2) Is 4 a solution for the inequality <math>19x - 11 &lt; 67</math>?</p> <p>6.EE.5</p>	<p>6.SP.5c</p>
<p>3) Use the formula <math>V = s^3</math> to find the volume of a cube with sides that measure <math>1 \frac{1}{2}</math> inches.</p> <p>6.EE.2c</p>	<p>5) It was <math>73^\circ\text{F}</math> along the coast. Then the fog rolled in and the temperature dropped <math>7^\circ\text{F}</math>. Later the temperature rose by <math>5^\circ\text{F}</math> and then again by <math>2^\circ\text{F}</math>. What integer represents the overall change in temperature from its <math>73^\circ\text{F}</math> starting point?</p> <p>6.NS.5</p>

## Warm-Up 109

1)  $56 + 9^2 (3) - 4(7) =$

6.EE.2c

2) Estimate the difference by rounding to the nearest whole number.  $44.56 - 27.09 =$

6.NS.3

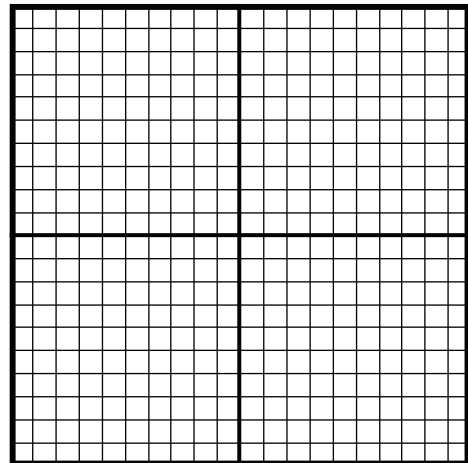
3) How many terms are there in the following expression?  
 $x - 5 + 16x + 4 - 2x - 3$

6.EE.2b

4) Let  $s =$  the speed limit. Write an inequality to show that the maximum speed limit is 70 miles per hour.

6.EE.8

5) Find the distance between  $(-8,-3)$  and  $(7,-3)$ .



6.NS.8

## Warm-Up 110

1)  $381.6 - 68.72 =$

6.NS.3

2) Name the property shown.

$$3 + 8 + 1 = 8 + 1 + 3$$

6.EE.3

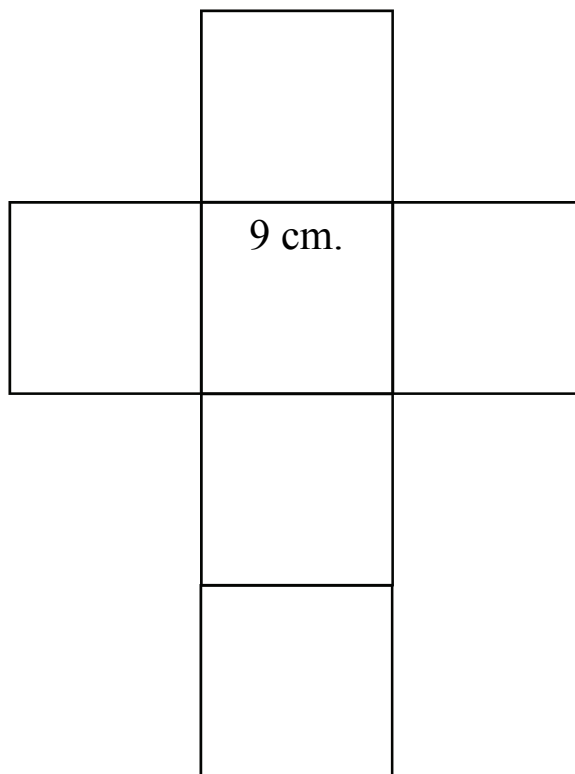
3) What point would be the reflection, across the x-axis, for the point (5,-4)?

6.NS.6b

4) Apply the distributive property to the expression  $7(2x - 8y - 6)$  to produce an equivalent expression.

6.EE.3

5) Use the net below to find the surface area of the cube.



6.G.4

# Warm-Up 111

1)  $(0.023)^2 =$

6.EE.1

2) What is the reciprocal of  $2\frac{3}{8}$ ?

6.NS.1

3) In their first 100 games a major league baseball team won 62 and lost 38. Simplify the ratio of wins to losses.

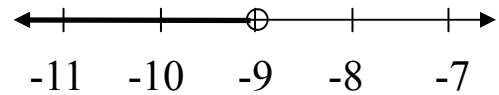
6.RP.1

4) Identify the coefficients in the following expression.

$$5x + 7 - 4y - 9z + 2$$

6.EE.2b

5) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

## Warm-Up 112

1) Is 10,725 divisible by 3?

6.NS.2

2) Evaluate the expression  $8x^2 + 4x - 23$  when  $x = 3$ .

6.EE.2c

3) Rewrite  $30x + 75$  using the distributive property with the greatest common factor located in front of the parentheses.

6.NS.4

4) If Alan read 204 pages in 6 hours, how many pages would you expect him to read in 11 hours?

6.RP.2

5) Use the box plot below to find the interquartile range.



6.SP.5c

## Warm-Up 113

1)  $28.14 \div 4.2 =$

6.NS.3

2) Simplify the expression  $8(2x - 6y + 3)$  using the distributive property.

6.EE.3

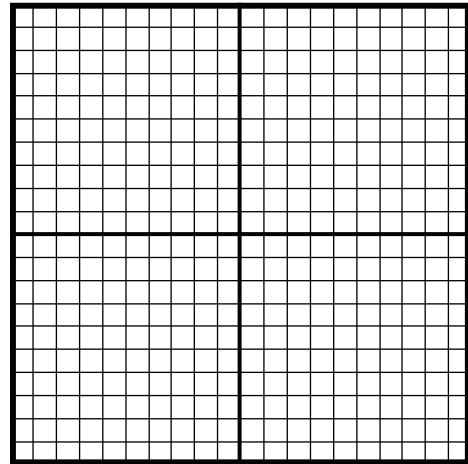
3) What point would be the reflection, across both the x and y axes, for the point  $(-7,3)$ ?

6.NS.6b

4) David spent 25% of his money at the department store. If he had \$27.36 left, how much money did he start with?

6.RP.3c

5) Find the distance between  $(5,2)$  and  $(5,-4)$ .



6.NS.8



## Warm-Up 114

<p>1) <math>640,000 \div 80 =</math></p> <p>6.NS.2</p>	<p>4) It took Fred 17 days to save \$36.55. At that rate, how long would it take him to save \$70.95?</p> <p>6.RP.3b</p>
<p>2) Name the property shown. <math>38 + 0 = 38</math></p> <p>6.EE.3</p>	<p>5) Jose took five math tests and received scores of 100, 92, 84, 79, and 93. Which measure of center (mean, median, or mode) would be best to figure Jose's math average?</p> <p>6.SP.5d</p>
<p>3) Find the greatest common factor (GCF) of 17 and 51.</p> <p>6.NS.4</p>	

## Warm-Up 115

<p>1) Solve for w. <math>14w - 9 = 89</math></p> <p style="text-align: right;">6.EE.5</p>	<p>4) Find the mean absolute deviation in the following data set: 23, 42, 36, 63, 31</p>
<p>2) In which quadrant is the point (-7,6) located?</p> <p style="text-align: right;">6.NS.6b</p>	<p>5) People were asked how many children are in their family. The results are shown below. How many people were surveyed?</p>
<p>3) Estimate the quotient using compatible numbers.</p> <p><math>88.37 \div 14.592 =</math></p> <p style="text-align: right;">6.NS.3</p>	<div style="text-align: center;"> <p>X    X</p> <p>  X   X   X</p> <p>X   X   X   X</p> <p>X   X   X   X   X</p> <p>X   X   X   X   X</p>   <p style="text-align: center;">←                   → 0   1   2   3   4</p> </div> <p style="text-align: right;">6.SP.5a</p>

## Warm-Up 116

1)  $3 \frac{1}{2} \div \frac{1}{16} =$

6.NS.1

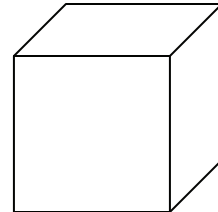
2) If 5 lbs. of grapes is \$7.45, find the unit rate.

6.RP.2

3) Let the amount of money Tabitha started with be represented by  $x$ . Tabitha then earned \$52, spent \$40, earned \$28, and spent \$58. How much money, in terms of  $x$ , does Tabitha have now?

6.NS.5

4) Using the formula  $V = s^3$ , find the volume of a cube with sides measuring  $9n$ .



6.EE.1

5) Robert went bowling. He scored 212, 188, 223, and 183 in his first four games. What will he have to score in game 5 to end up with a mean score of exactly 200?

6.SP.5c

## Warm-Up 117

1)  $8.64 \div (0.47) =$

6.NS.3

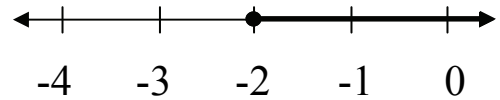
2) Find the least common multiple (LCM) of 7 and 12.

6.NS.4

3) Given three points located at  $(-8,7)$ ,  $(5,7)$ , and  $(-8,-9)$ , find the coordinates for the point that will complete the rectangle.

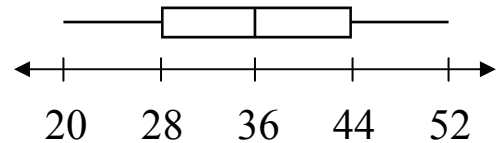
6.G.3

4) Using  $x$  as the variable, write the inequality graphed on the number line.



6.EE.8

5) Use the box plot below to find the interquartile range.



6.SP.5c

## Warm-Up 118

1)  $(\frac{5}{8})^3 =$

6.EE.1

2) Name the property shown.  
 $(3 + 8) + 6 = 3 + (8 + 6)$

6.EE.3

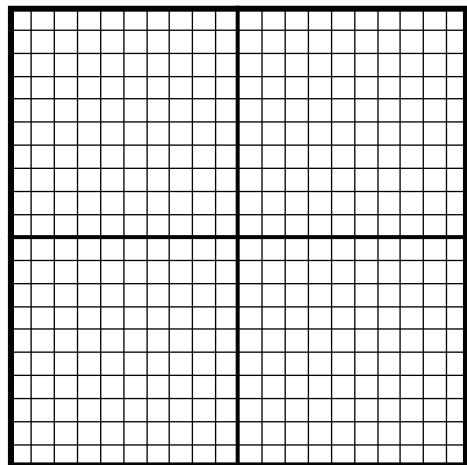
3) The Cruz family wants to tile three rooms of their house. The rooms (in feet) are 15 x 12, 18 x 16, and 10 x 13. What is the area that needs to be covered by tile?

6.G.1

4) Laura spent  $\frac{1}{3}$  of her money at the fabric store. If she had \$42.64 left, how much money did she start with?

6.RP.3c

5) Find the area of a rectangle with points at  $(-2,8)$ ,  $(5,8)$ ,  $(5,-3)$  and  $(-2,-3)$ .



6.NS.8

## Warm-Up 119

1)  $\frac{3}{4} \div \frac{9}{16} =$

6.NS.1

2) Evaluate the expression  $4x^3 - 2x + 23$  when  $x = 3$ .

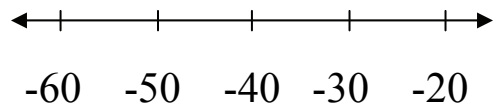
6.EE.2c

3) What point would be the reflection, across both the x and y axes, for the point  $(8, -7)$ ?

6.NS.6b

4) Solve the inequality.

$$-42 \underline{\hspace{1cm}} -28$$



6.NS.7a

5) Write the equation for the function table below. (Use the form  $y = mx + b$ .)

X	Y
2	33
30	257
100	817

6.EE.9

## Warm-Up 120

1) List the factors of 49.

6.NS.4

2) In which quadrant is the point  $(-4,-1)$  located?

6.NS.6b

3) Simplify the expression by combining like terms:

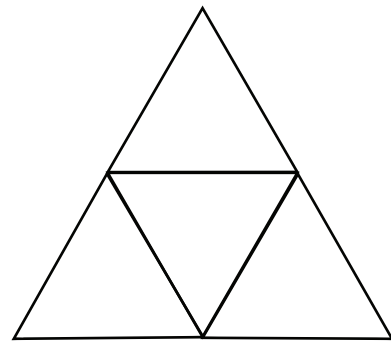
$$6(4x) + 8(5y) - 21 + 63 \\ - 3(5x) - 12y + 18 - 7(3x)$$

6.EE.4

4) Find the mean absolute deviation in the following data set: 20, 38, 41, 53, 33

6.SP.5c

5) Use the net below to find the surface area of the triangular pyramid. The four congruent triangles each have a base of 10 inches and a height of 9 inches.



6.G.4

# 6th Grade Math Common Core Warm-Up Program

## Additional Resources Available at DigitalLesson.com

Including this math resource, here are the main eBooks available at [DigitalLesson.com](http://DigitalLesson.com). Please follow the links for more information.

### [6th Grade Math Common Core Warm-Up Program](#)

A set of 120 daily warm-ups designed to support and help implement the Common Core Math Standards.

### [7th Grade Math Common Core Warm-Up Program](#)

A set of 120 daily warm-ups designed to support and help implement the Common Core Math Standards.

### [Marvelous Middle School Math:](#)

### [The Complete Collection of Lessons, Projects, and Games](#)

Infuse Life Into Your Curriculum and Energize Your Students with Powerful, Hands-On Math Activities Presented in a Meaningful Context. Includes 42 math lessons, projects, and games.

### [Speed Skills Challenge Foundational Fluency Program](#)

Build Mathematical Fluency and Automaticity into Your Students That Will be Foundational to Their Success in Middle School Math. Includes 16 foundational skill modules for middle school math.

In addition, downloads of **smaller eBooks and individual lessons, projects, and games** designed specifically for middle school math teachers are available at [DigitalLesson.com](http://DigitalLesson.com).

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Mark P. Tully

Founder, DigitalLesson.com