## $6{ }^{\text {th }}$ Grade FSA Countdown

## Customary Conversions

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 mile $=1,760$ yards
1 cup $=8$ fluid ounces
1 pint $=2$ cups
1 quart = 2 pints
1 gallon = 4 quarts
1 pound = 16 ounces
1 ton = 2,000 pounds

## Metric Converslons

1 meter = 100 centimeters
1 meter = 1000 millimeters
1 kilometer = 1000 meters
1 liter = 1000 milliliters
1 gram = 1000 milligrams
1 kilogram = 1000 grams

## TIme ConversIons

1 minute $=60$ seconds
1 hour $=60$ minutes
1 day = 24 hours
1 year $=365$ days
1 year = 52 weeks

## Formulas

$A=b h$
$A=\frac{1}{2} h\left(b_{1}+b_{2}\right)$
$A=I w$
$A=\frac{1}{2} b h$

## Test Length

This table provides the approximate range for the number of items on each test.

| Grade/Course | Number of Items |
| :---: | :---: |
| 3 | $60-64$ |
| 4 | $60-64$ |
| 5 | $60-64$ |
| 6 | $62-66$ |
| 7 | $62-66$ |
| 8 | $62-66$ |
| Algebra 1 | $64-68$ |
| Algebra 2 | $64-68$ |
| Geometry | $64-68$ |

Note: Approximately 6-10 items on all of the tests listed above are experimental (field test) items and are included in the ranges above but are not included in students' scores.

## Sessions and Times

| Grade/Course | Administration Time | Number of Sessions* | Computer-Based in 2015 |
| :---: | :---: | :---: | :---: |
| 3 | 160 minutes | 2 | No |
| 4 | 160 minutes | 2 | No |
| 5 | 160 minutes | 2 | Yes |
| 6 | 180 minutes | 3 | Yes |
| 7 | 180 minutes | $3^{* *}$ | Yes |
| 8 | 180 minutes | $3^{* *}$ | Yes |
| Algebra 1 | 180 minutes | $2^{* *}$ | Yes |
| Algebra 2 | 180 minutes | $2^{* *}$ | Yes |
| Geometry | 180 minutes | $2^{* *}$ | Yes |
| *All sessions are administered over two days. |  |  |  |
| **Session 1 is the non-calculator portion of each assessment. |  |  |  |

## Percentage of Computer-Based Test Composed of Technology-Enhanced Items

| Grade/Course | Percentage Range |
| :--- | :---: |
| Grades 5-8 Mathematics* | $25 \%-50 \%$ |
| Algebra 1, Geometry, Algebra 2 EOCs | $40 \%-60 \%$ |
| * Grades 3 and 4 Mathematics tests, once computer based, will also be composed of 25\%-50\% TEIs. |  |

Grade 6 Mathematics Standards Coverage

| Reporting Category | Standard | \% of Test |
| :---: | :---: | :---: |
| Ratio and Proportional Relationships | MAFS.6.RP.1.1 | 15\% |
|  | MAFS.6.RP.1.2 |  |
|  | MAFS.6.RP.1.3 |  |
| Expressions and Equations | MAFS.6.EE.1.1 | 30\% |
|  | MAFS.6.EE.1.2 |  |
|  | MAFS.6.EE.1.3 |  |
|  | MAFS.6.EE.1.4 |  |
|  | MAFS.6.EE.2.5 |  |
|  | MAFS.6.EE.2.6 |  |
|  | MAFS.6.EE.2.7 |  |
|  | MAFS.6.EE.2.8 |  |
|  | MAFS.6.EE.3.9 |  |
| Geometry | MAFS.6.G.1.1 | 15\% |
|  | MAFS.6.G.1.2 |  |
|  | MAFS.6.G.1.3 |  |
|  | MAFS.6.G.1.4 |  |
| Statistics \& Probability | MAFS.6.SP.1.1 | 19\% |
|  | MAFS.6.SP.1.2 |  |
|  | MAFS.6.SP.1.3 |  |
|  | MAFS.6.SP.2.4 |  |
|  | MAFS.6.SP.2.5 |  |
| The Number System | MAFS.6.NS.1.1 | 21\% |
|  | MAFS.6.NS.2.2 |  |
|  | MAFS.6.NS.2.3 |  |
|  | MAFS.6.NS.2.4 |  |
|  | MAFS.6.NS.3.5 |  |
|  | MAFS.6.NS.3.6 <br> Also Assesses MAFS.6.NS.3.8 |  |
|  | MAFS.6.NS.3.7 |  |
| Total Standard Groupings | 28 | 100\% |

## Florida Standards Assessments Test Item Descriptions

The Florida Standards Assessments (FSA) are composed of test items that include traditional multiplechoice items, items that require students to type or write a response, and technology-enhanced items (TEI). Technology-enhanced items are computer-delivered items that require students to interact with test content to select, construct, and/or support their answers. Currently, there are nine types of TEls that may appear on computer-based assessments for FSA
Mathematics.

## Technology-Enhanced Item Types - Mathematics

1. Editing Task Choice - The student clicks a highlighted word or phrase, which reveals a drop-down menu containing options for correcting an error as well as the highlighted word or phrase as it is shown in the sentence to indicate that no correction is needed. The student then selects the correct word or phrase from the drop-down menu. For paper-based assessments, the item is modified so that it can be scanned and scored electronically. The student fills in a circle to indicate the correct word or phrase.
2. Editing Task - The student clicks on a highlighted word or phrase that may be incorrect, which reveals a text box. The directions in the text box direct the student to replace the highlighted word or phrase with the correct word or phrase. For paper-based assessments, this item type may be replaced with another item type that assesses the same standard and can be scanned and scored electronically.
3. Hot Text -
a. Selectable Hot Text-Excerpted sentences from the text are presented in this item type. When the student hovers over certain words, phrases, or sentences, the options highlight. This indicates that the text is selectable ("hot"). The student can then click on an option to select it. For paper-based assessments, a "selectable" hot text item is modified so that it can be scanned and scored electronically. In this version, the student fills in a circle to indicate a selection.
b. Drag-and-Drop Hot Text-Certain numbers, words, phrases, or sentences may be designated "draggable" in this item type. When the student hovers over these areas, the text highlights. The student can then click on the option, hold down the mouse button, and drag it to a graphic or other format. For paperbased assessments, drag-and-drop hot text items will be replaced with another item type that assesses the same standard and can be scanned and scored electronically.
4. Open Response-The student uses the keyboard to enter a response into a text field. These items can usually be answered in a sentence or two. For paper-based assessments, this item type may be replaced with another item type that assesses the same standard and can be scanned and scored electronically.
5. Multi-select - The student is directed to select all of the correct answers from among a number of options. These items are different from multiple-choice items, which allow the student to select only one correct answer. These items appear in the online and paper-based assessments.
6. Graphic Response Item Display (GRID) - The student selects numbers, words, phrases, or images and uses the drag-and-drop feature to place them into a graphic. This item type may also require the student to use the point, line, or arrow tools to create a response on a graph. For paper-based assessments, this item type may be replaced with another item type that assesses the same standard and can be scanned and scored electronically.
7. Equation Editor - The student is presented with a toolbar that includes a variety of mathematical symbols that can be used to create a response. Responses may be in the form of a number, variable, expression, or equation, as appropriate to the test item. For paper-based assessments, this item type may be replaced with a modified version of the item that can be scanned and scored electronically or replaced with another item type that assesses the same standard and can be scanned or scored electronically.
8. Matching Item - The student checks a box to indicate if information from a column header matches information from a row. For paper-based assessments, this item type may be replaced with another item type that assesses the same standard and can be scanned and scored electronically.
9. Table Item - The student types numeric values into a given table. The student may complete the entire table or portions of the table depending on what is being asked. For paper-based assessment, this item type may be replaced with another item type that assesses the same standard and can be scanned and scored electronically.

| $6^{\text {th }}$ Grade Standards |  | Review Week |  |  |  |  |  |  |  |  | IP Semester | \# times reviewed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Domain | Standard | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |
|  | 6.EE.1.1 | X |  |  |  |  | X |  |  |  | 1 | 10 |
|  | 6.EE.1.2 |  | X |  |  |  | X |  |  |  | 1 | 10 |
|  | 6.EE.1.3 |  |  | X |  |  | X |  |  |  | 1 | 10 |
|  | 6.EE.1.4 |  |  | X |  |  | X |  |  |  | 1 | 10 |
|  | 6.EE.2.5 |  |  |  | X |  |  | X |  |  | 1 | 10 |
|  | 6.EE.2.6 |  |  |  | $x$ |  |  | X |  |  | 1 | 10 |
|  | 6.EE.2.7 |  |  |  | $x$ |  |  |  | $x$ |  | 1 | 10 |
|  | 6.EE.2.8 |  |  |  | X |  |  |  | X |  | 1 | 10 |
|  | 6.EE.3.9 |  |  | X |  |  | X |  |  |  | 1 | 10 |
| $\begin{aligned} & \grave{y} \\ & \text { む } \\ & \text { E } \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | 6.G.1.1 |  |  | $x$ |  |  |  |  |  |  | 2 | 5 |
|  | 6.G.1.2 |  |  | $x$ |  |  |  |  |  |  | 2 | 5 |
|  | 6.G.1.3 |  |  |  | X |  |  |  |  |  | 2 | 5 |
|  | 6.G.1.4 |  |  |  |  | X |  |  |  |  | 2 | 5 |
|  | 6.NS.1.1 | $x$ |  |  |  | X |  |  |  |  | 1 | 10 |
|  | 6.NS.2.2 | X |  |  |  |  |  | X |  |  | 1 | 10 |
|  | 6.NS.2.3 | X |  |  |  |  |  | X |  |  | 1 | 10 |
|  | 6.NS.2.4 | $x$ |  |  |  |  |  | X |  |  | 1 | 10 |
|  | 6.NS.3.5 |  | X |  |  |  |  |  |  |  | 1 | 5 |
|  | 6.NS.3.6 |  | $x$ |  |  |  |  |  | $x$ |  | 1 | 10 |
|  | 6.NS.3.7 |  | $x$ |  |  |  |  |  | $x$ |  | 1 | 10 |
|  | 6.NS.3.8 |  | X |  |  |  |  |  |  |  | 1 | 5 |
|  | 6.RP.1.1 |  |  |  |  | X |  |  |  |  | 2 | 5 |
|  | 6.RP.1.2 |  |  |  |  | X |  |  |  |  | 2 | 5 |
|  | 6.RP.1.3 |  |  |  |  | X |  |  | X |  | 2 | 10 |
| $$ | 6.SP.1.1 |  |  |  |  |  |  |  |  | X | 2 | 5 |
|  | 6.SP.1. 2 |  |  |  |  |  |  |  |  | X | 2 | 5 |
|  | 6.SP.1.3 |  |  |  |  |  |  |  |  | X | 2 | 5 |
|  | 6.SP.2.4 |  |  |  |  |  |  |  |  | X | 2 | 5 |
|  | 6.SP.2.5 |  |  |  |  |  |  |  |  | X | 2 | 5 |

Name:
Date:
$6^{\text {th }}$ Grade Math: Week 1 FSA Countdown $\qquad$

## Day 1

1. 6.EE.1.1
$2^{4}=$ ?
A. $2+2+2+2$
B. $2+4$
C. $2 \cdot 2 \cdot 2 \cdot 2$
D. 2.4

## 2. 6.NS.1.1

Select whether the quotient for each fraction division expression is less than one or greater than/ equal to one.

|  | $<1$ | $\geq 1$ |
| :--- | :--- | :--- |
| $\frac{7}{10} \div \frac{14}{10}$ |  |  |
| $\frac{7}{10} \div \frac{14}{20}$ |  |  |
| $\frac{7}{10} \div \frac{1}{2}$ |  |  |
| $\frac{7}{10} \div \frac{4}{5}$ |  |  |

## 3. 6.NS.2.2

$9063 \div 19=$
4. 6.NS.2.3
$0.243+70.3=$ $\qquad$
5. 6.NS.2.4

What is the greatest common factor of 56 and 49 ?

Name:
Date:
6th Grade Math: Week 1 FSA Countdown
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## Day 2

1. 6.EE.1.1

Evaluate the expression: $\frac{1}{3}(4 \cdot 3)+2^{3}$

The value of the expression is: $\qquad$
2. 6.NS.1.1

Christopher just found beautiful yarn for $20 \%$ off at his favorite yarn store. He can make one scarf from $\frac{2}{3}$ of a ball of yarn. If Christopher buys 12 balls of yarn, how many scarves can he make?
3. 6.NS.2.2

A skyscraper with 103 floors is 1,133 feet tall. Each floor is the same height. How tall is each floor?
4. 6.NS.2.3
$3.05-0.338=$
5. 6.NS.2.4

What is the least common multiple of 12 and 8 ?
$\qquad$

## Day 3

## 1. 6.EE.1.1

Write a numerical expression with exponents to describe the sum of $3 \times 3 \times$ $3 \times 3$ and 36 .

## 2. 6.NS.1.1

Gavin drank $\frac{3}{4}$ of a liter of orange juice from a container, which was $\frac{3}{8}$ of the orange juice that was originally in the container. How much orange juice was originally in the container?

## 3. 6.NS.2.2

$10788 \div 31=$
4. 6.NS.2.3
$0.703 \times 2.43=$

## 5. 6.NS.2.4

There are 72 boys and 90 girls on a math team. For the next competition, Mr. Johnson would like to arrange all the students in equal rows with only girls or only boys in each row. What is the greatest number of students that can be in each row?
$\qquad$

## Day 4

## 1. 6.EE.1.1

The table you're working at keeps wobbling. You decide to fix it by making a thick pad of paper from folded sheets of paper. Each time you fold a sheet in two, the number of layers doubles. You fold a first sheet of paper 3 times and stick it beneath the wobbly leg. It doesn't quite do the trick, so you fold another sheet of paper 2 times and put it beneath the wobbly leg too. In total, how many layers of paper did it take to prop up the table? $\qquad$ layers

## 2. 6.NS.1.1

George has a goal of walking $\frac{9}{2}$ kilometers today. Each time he walks to school and back, he walks a total of $\frac{1}{2}$ kilometers. What is the meaning of $\frac{9}{2} \div \frac{1}{2}$ ?
A. The speed in kilometers per hour that George needs to walk in order to reach his goal.
B. The fraction of George's goal that he accomplishes each time he walks to school and back.
C. How many kilometers George will have left to reach his goal after walking to school and back 1 time.
D. The number of times George must walk to school and back to accomplish his goal.
3. 6.NS.2.2
$3041 \div 63=$ $\qquad$
4. 6.NS.2.3
$168.72 \div 0.024=$
5. 6.NS.2.4

We can rewrite the expression $16+8$ as $8 \times(2+1)$. Notice that 8 is the greatest common factor of 16 and 8 . Use this same method to rewrite the expression $24+36$ as the product of the greatest common factor of 24 and 36 and the sum of the remaining numbers.
$24+36=$ $\qquad$
$\qquad$

## Day 5

## 1. 6.EE.1.1

Evaluate the following expression:
$(2 \cdot 3)^{2}-5^{2}$

## 2. 6.NS.1.1

Sequoya has $\frac{1}{2}$ of a liter of apple juice which fills $\frac{1}{3}$ of her glass. How many glasses will 1 liter of apple juice fill?

## 3. 6.NS.2.2

$9263 \div 88=$ $\qquad$
4. 6.NS.2.3

At a local gas station, regular gasoline sells for $\$ 2.899$ per gallon, while premium gasoline sells for $\$ 3.379$ per gallon. How much does a person save on 15.25 gallons of gas by buying regular instead of premium?
5. 6.NS.2.4

Your local radio station is having their yearly MP3 and concert ticket giveaway. For one minute, every $5^{\text {th }}$ caller will win an MP3 player and every $7^{\text {th }}$ caller will win concert tickets. You were just the first caller to win both an MP3 player and concert tickets! What number caller were you?
$\qquad$

## Day 1

## 1. 6.EE.1.2

You have two cubes that you fill with water to make ice cubes. The first cube has a side length of 3 units. The second cube has a side length of 5 units. Write an expression that you can use to find the total volume of ice you can make.

## 2. 6.NS.3.5

The temperature on Saturday was -4 degrees Fahrenheit ( ${ }^{\circ} \mathrm{F}$ ). The temperature on Sunday was 9 degrees warmer than the temperature on Saturday. Was the temperature, in degrees Fahrenheit, positive or negative on Sunday? Explain.
3. 6.NS.3.6

What coordinates best represent the location of point K on the coordinate plane?


## 4. 6.NS.3.7

The level of the top of the water in the ocean is considered to be at an altitude of zero (0) feet.

- The ocean floor at a particular dive site is -20 feet.
- A diver is located at -5 feet at the same site.
- The captain of a boat is located at an altitude of 15 feet, directly above the diver.
Determine whether each statement is correct. Select True/False for each statement.

|  | True | False |
| :---: | :---: | :---: |
| The distance from the captain to the diver is greater than the distance from the top of the water to the ocean floor |  |  |
| The distance from the captain to the top of the water is the same as the distance from the diver to the ocean floor. |  |  |
| When the diver swims to -10 feet, the diver will be the same distance below the top of the water as the captain is above the top of the water. |  |  |
| When the diver swims to -10 feet, the diver's distance to the ocean floor will be equal to diver's distance to the top of the water. |  |  |

## 5. 6.NS.3.8

The coordinates of point $V$ are $(7,4)$. Point $W$ is a reflection of point $V$ across the $x$-axis. In which quadrant will point $W$ be located?
A. I
B. II
C. III
D. IV
$\qquad$

## Day 2

## 1. 6.EE.1.2

Which expression represents the phrase " 8 less than the product of 6 and a number, $x$ "?
A. $8-6 x$
B. $6 x-8$
C. $(6+x)-8$
D. $8-(6+x)$

## 2. 6.NS.3.5

Electrons and protons are particles in an atom with equal but opposite charges. Electrons have a negative charge and protons have a positive charge. What is the charge of an atom with 2 more electrons than protons?
3. 6.NS.3.6

Which number line shows the correct locations of all the given values?
$\frac{1}{2},-4,-2 \frac{3}{4}, 1 \frac{1}{4}$
A.

B.

C.

D.

4. 6.NS.3.7

Which of the following has a value between $\frac{10}{3}$ and $\frac{11}{3}$ ?
A. $3 \frac{1}{2}$
B. $3 \frac{1}{4}$
C. $3 \frac{3}{4}$
D. $3 \frac{1}{8}$
5. 6.NS.3.8

The coordinates of the vertices of a rectangle are $(-2,3),(4,-4),(4,3)$, and $(-2$, $-4)$. What are the dimensions of the rectangle?
A. 1 unit by 2 units
B. 1 unit by 6 units
C. 7 units by 2 units
D. 7 units by 6 units
$\qquad$

## Day 3

## 1. 6.EE.1.2

Write an expression to represent: Seven less than the product of two and a number $x$.

## 2. 6.NS.3.5

The lowest point in the United States is in Death Valley. Its elevation is 282 ft below sea level. Which of the following choices expresses this elevation as an integer?
A. 282
B. -282
C. 0
D. 94

## 3. 6.NS.3.6

The location of point $K$ is shown on the number line below. What fraction is represented by the location of point K ?


## 4. 6.NS.3.7

Sea level is 0 feet in elevation. The elevation of land represents its height above or below sea level. This table shows the lowest elevation in some states.

| State | Lowest <br> Elevation (ft) |
| :---: | :---: |
| Arizona | 72 |
| California | -282 |
| Louisiana | -68 |
| Tennessee | 178 |

Determine whether each statement about the lowest elevations is correct. Select True/False for each statement

|  | True | False |
| :--- | :--- | :--- |
| The elevation at the lowest point <br> in California is higher than the <br> lowest point in Louisiana. |  |  |
| The elevation at the lowest point <br> in Tennessee is farther from 0 than <br> the elevation at the lowest point of <br> Louisiana. |  |  |
| The elevation at the lowest point <br> in Louisiana is higher than the <br> lowest point in California. |  |  |

## 5. 6.NS.3.8

The coordinates of point $A$ are $(-6,4)$. The coordinates of point $B$ are $(3,4)$. Which expression represents the distance, in units, between points $A$ and $B$ ?
A. $|-6|+|3|$
B. $|3|-|-6|$
C. $|-6|+|-4|$
D. $|4|-|-6|$
$\qquad$

## Day 4

## 1. 6.EE.1.2

What is the value of the expression $3 z-3$ when $z=7$ ?
A. 12
B. 18
C. 21
D. 34

## 2. 6.NS.3.5

Geographers use negative numbers to represent points below sea level, and positive numbers to represent points above sea level. For example, the lowest point in New Orleans is at -2 meters, and the highest point is at 6 meters. What does 0 meters represent?
A. Sea level
B. The highest point in New Orleans
C. The lowest point in Baton Rouge
D. The lowest point in New Orleans

## 3. 6.NS.3.6

Which number best represents the location of point E on the number line below?

A. -1.8
B. -1.6
C. -1.5
D. -1.3

## 4. 6.NS.3.7

The table below shows the low temperature in a town each day for four days. Which of the following lists the temperatures in order from least to greatest?

Low Temperatures

| Day | Monday | Tuesday | Wednesday | Thursday |
| :--- | :---: | :---: | :---: | :---: |
| Temperature <br> (in ${ }^{\circ} \mathbf{F}$ ) | 5 | 1 | -8 | -3 |

A. $1,-3,5,-8$
B. $-3,-8,1,5$
C. $-8,-3,5,1$
D. $-8,-3,1,5$
5. 6.NS.3.8

What is the distance between the points $(-7,1)$ and $(-7,-5)$ on the coordinate plane?
$\qquad$

## Day 5

## 1. 6.EE.1.2

Which of the following answers matches "The quotient of 9 and the sum of the quantities 5 and product of 8 and $\times$."
A. $\frac{8 x+5}{9}$
B. $9(5 x+8)$
C. $\frac{8 x}{9}+5$
D. $\frac{8+5 x}{9}$

## 2. 6.NS.3.5

Daniel is mapping out important family events. He uses negative numbers to represent time before he got his first cat, and positive numbers to represent time after he got his first cat. For example, Daniel's mom was born in year -28, and Daniel got his first dog in year 7. What does year 0 represent?
A. The year Daniel got his first cat
B. The year Daniel got his first dog
C. The year Daniel lost his first tooth
D. The year Daniel's mom was born
3. 6.NS.3.6

Points Q and R on the number line below each represent a real number. Which of the following numbers is located between points $Q$ and $R$ on the number line?

A. 3.84
B. 3.88
C. 3.94
D. 3.98
4. 6.NS.3.7

Jenna's weight changed by -3 kg last month. Sarah's weight changed by $2 \frac{1}{2} \mathrm{~kg}$ last month. Which of the following statements are true?
A. Jenna lost more weight than Sarah did last month.
B. Sarah gained more weight than Jenna did last month.
C. There was a greater change in Sarah's weight than Jenna's weight last month.
D. There was a greater change in Jenna's weight than Sarah's weight last month
5. 6.NS.3.8

Point $G$ is the point $(3,-1)$. Which point is 5 units from point $G$ ?

A. Point A
B. Point B
C. Point C
D. Point D
$\qquad$

## Day 1

1. 6.EE.1.3

Which of the following is equivalent to the expression $6 m+3$
A. $2(3 m+3)$
B. $3(2 m+1)$
C. $3(2 m+3)$
D. $6(m+3)$
2. 6.EE.1.4

Do the phrases " 38 minus 15 "and " 15 less than 38 " mean the same thing? Explain.
3. 6.EE.3.9

The cost of renting a bicycle from Dan's Bike Shop is $\$ 2$ for 1 hour plus $\$ 1$ for each additional hour of rental time. Which of the following graphs shows the cost, in dollars, of renting a bicycle from Dan's Bike Shop for 1, 2, 3, and 4 hours?

A. (hours) Bicycle Rental Cost


B.
(hours) Bicycle Rental Cost

D.

## 4. 6.G.1.1

What is the area, in square centimeters, of the figure below?

A. $6.96 \mathrm{~cm}^{2}$
B. $10.6 \mathrm{~cm}^{2}$
C. $13.92 \mathrm{~cm}^{2}$
D. $17.4 \mathrm{~cm}^{2}$
5. 6.G.1.2

Micah constructs a rectangular prism with a volume of 360 cubic units. The height of his prism is 10 units. Micah claims that the base of the prism must be a square. Use the "Connect Line" tool to draw a base that shows Micah's claim is incorrect.


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Period: $\qquad$

## Day 2

## 1. 6.EE.1.3

Which expression is equivalent to $3(6 \mathrm{~m})+$ $m$ ?
A. $19 m$
B. 21 m
C. $7 m+3$
D. $18 m+6 m^{2}$

## 2. 6.EE.1.4

Explain whether $x+2 y+3 z$ is equivalent to $z+y+z+x+y+z$.
3. 6.EE.3.9

In the morning, Emily studied 40 minutes for a math exam. Later that evening, Emily studied for $x$ more minutes. Write an equation that represents the total number of minutes, y, Emily studied for the math exam.
4. 6.G.1.1

Enter the total area of the figure $A B C D$ in square centimeters.

5. 6.G.1.2

A box in the shape of a right rectangular prism has a length of 8 inches, a width of 4 inches, and a height of 3 inches. What is the volume, in cubic inches, of the box? Do not round your answer.
$\qquad$

## Day 3

## 1. 6.EE.1.3

Write an expression that is equivalent to the following:

$$
x+x+x+x-20
$$

## 2. 6.EE.1.4

Ms. Peterson wrote the expression below on the chalkboard for her class. She asked the students to write an equivalent expression using no more than one set of parentheses.

$$
4(3 x+5 y+2 z)+3(x-z)
$$

- Tom wrote $12 x+20 y+8 z$
- Jenna wrote $5(3 x+4 y+z)$
- Chris wrote $15 x+20 y-5 z$

Which, if any, of the three students wrote an expression that is equivalent to Ms. Peterson's expression?

## 3. 6.EE.3.9

Which of the following rules is true for all values in the input-output table below?

| Input (x) | Output (y) |
| :---: | :---: |
| 2 | 4 |
| 3 | 6 |
| 6 | 12 |
| 8 | 16 |
| 10 | 20 |

A. $x+1=y$
B. $x+2=y$
C. $2 x=y$
D. $3 x-2=y$
4. 6.G.1.1

What is the area of the isosceles trapezoid shown?

A. $27 \mathrm{~cm}^{2}$
B. $33.8 \mathrm{~cm}^{2}$
C. $40.5 \mathrm{~cm}^{2}$
D. $54 \mathrm{~cm}^{2}$
5. 6.G.1.2

Two shaded cubes are shown.


Ben states that the combined volume of these two shaded cubes is equal to the volume of this cube.


Find the combined volume of the two shaded cubes, and use it to explain whether Ben is right or not.
$\qquad$
Day 4

## 1. 6.EE.1.3

Which expression is equivalent to $5(d+1)$ ?
A. $5 d+5$
B. $5 d+1$
C. $d+5$
D. $d+6$
2. 6.EE.1.4

Which pairs of expressions below are equivalent? (Select all that apply)
A. $x+y+x+y$ and $2(x+y)$
B. $5 x+3 x-2 y$ and $-2 y+8 x$
C. $5(2 x-3 y)$ and $10 x-3 y$
D. $4 x-5 y$ and $5 y-4 x$
E. $6 x-8 y$ and $3(2 x-4 y)$
F. $9 x+2 y$ and $11 x y$

## 3. 6.EE.3.9

A freight train is traveling at a constant speed. The table below shows how far the train travels after different amounts of time. Complete the table below.

| Time <br> (in hours) | Distance <br> (in miles) |
| :---: | :---: |
| 2 |  |
| 3 | 120 |
|  | 200 |
| 8 |  |

Write an equation for $d$, the distance traveled by the train, after $h$ hours.
4. 6.G.1.1

Given the triangle below, choose True or False for the following:


|  | True | False |
| :--- | :--- | :--- |
| The triangle is a right <br> triangle. |  |  |
| The height of the triangle is <br> 5 inches. |  |  |
| The perimeter is 12 inches. |  |  |
| The area is 60 square inches. |  |  |

5. 6.G.1.2

The base of a right rectangular prism has an area of 173.6 square centimeters and a height of 9 centimeters. What is the volume, in cubic centimeters, of the right rectangular prism?
A. 182.6
B. 781.2
C. $14,061.6$
D. 1,562.4

Name:
$6^{\text {th }}$ Grade Math: Week 3 FSA Countdown
Date:
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## Day 5

## 1. 6.EE.1.3

Use the distributive property to write an expression that is equivalent to the expression below.

$$
5(2 x+7)
$$

## 2. 6.EE.1.4

Clerk 1 uses the expression $4 a+3 g-2$ to find the total. Clerk 2 uses $3 g+4 a-2$. Will the totals be the same? Explain.

Apples: $\$ 4 / \mathrm{bag}$ Grapes: \$3/bag

Today ONLY \$2 off

## 3. 6.EE.3.9

The Ferrells save $\$ 150$ each month for their next summer vacation. Write an equation that they can use to find $s$, their savings, after $m$ months.
4. 6.G.1.1

The Masons built a deck in their backyard.


What is the area, in square feet, of the deck?

## 5. 6.G.1.2

Find the volume, in cubic centimeters, of the rectangular prism pictured below.


Name: $\qquad$
$6^{\text {th }}$ Grade Math: Week 4 FSA Countdown

Date:
Period: $\qquad$

## Day 1

## 1. 6.EE. 2.5

Karla wrote the equation $x \div 6=12$. What value of $x$ makes Karla's equation true?
A. 2
B. 6
C. 36
D. 72

## 2. 6.EE.2.6

Suppose you rent a bicycle to ride around a park. The rental fee is $\$ 12$ for each hour the bike is rented and $\$ 5$ for a helmet. What quantity should not be represented by a variable?
A. The length of time you rent the bike
B. The total cost of renting the bike
C. The rental fee for the helmet
D. The distance you travel
4. 6.EE. 2.8

Which graph represents the statement "the temperature will be greater than $-4^{\circ} \mathrm{F}$ "?

5. 6.G.1.3

Paula plotted $\triangle P Q R$, point $S$, and point $T$, as shown below. Paula wants to plot point $U$ so that point $S$, point $T$, and point $U$ are the vertices of a triangle that is the same size and shape as $\triangle P Q R$. Which of the following cannot be the coordinates of point $U$ ?

A. $(4,0)$
B. $(5,6)$
C. $(8,0)$
D. $(8,6)$
$\qquad$

## Day 2

1. 6.EE.2.5

Select all the equations where $x=5$ is a solution.
A. $2 x+4=14$
B. $5 x=55$
C. $6 x+3=14$
D. $8+3 x=23$
E. $6 x=30$
F. $5 x=1$

## 2. 6.EE.2.6

Which situation can be represented by the expression $1.3 x$ ?
A. The total cost of an item that is $x$ dollars more than $\$ 1.30$
B. The area of a rectangle with side lengths 1.3 and $x$
C. The amount of change when $\$ 1.30$ is used to pay for an item costing $x$ dollars
D. The number of square feet in each lot when 1.3 acres is partitioned into $x$ equal sections

## 3. 6.EE.2.7

Ms. Stone buys groceries for a total of $\$ 45.32$. She now has $\$ 32.25$ left. Which equation could be used to find out how much money Ms. Stone had before she bought the groceries?
A. $\$ 45.32 x=\$ 32.25$
B. $x+\$ 45.32=\$ 32.25$
C. $x-\$ 45.32=\$ 32.25$
D. $x+\$ 32.25=\$ 45.32$

## 4. 6.EE.2.8

Lauren swims at least 24 laps each day. Which inequality shows $s$, the number of laps Lauren swims each day?
A. $s \geq 24$
B. $s \leq 24$
C. $s>24$
D. $s<24$
5. 6.G.1.3

The coordinates of this parallelogram are given. Determine if each statement is True or False.


|  | True | False |
| :--- | :--- | :--- |
| The length of the longer <br> side is $p-2$. |  |  |
| The length of the longer <br> side is $n+1$. |  |  |
| The short side is 4 units in <br> length. |  |  |
| $n=5$ |  |  |
| $m>n$ |  |  |
| $p=2$ |  |  |

Name:
Date:
$6^{\text {th }}$ Grade Math: Week 4 FSA Countdown $\qquad$

## Day 3

## 1. 6.EE.2.5

The set of numbers $1,7,11$, and 36 contains values for $m$. What value of $m$ makes the equation $4 m+8=36$ true?
2. 6.EE. 2.6

The movie shop sells posters for $\$ 7$, DVDs for $\$ 15$, and CDs for $\$ 9$. Write an algebraic expression to represent the total cost for 2 posters, $d$ DVDs, and $c$ CDs.
3. 6.EE.2.7

What is the solution to the equation $4 w=\frac{2}{3}$ ?
A. $w=\frac{2}{12}$
B. $w=\frac{2}{7}$
C. $w=\frac{8}{3}$
D. $w=3 \frac{1}{3}$
4. 6.EE.2.8

Graph the inequality $x<1 \frac{1}{2}$.

5. 6.G.1.3

Victor drew trapezoid PQRS on a coordinate plane. The coordinates of each vertex are:
$P(8,4) \quad Q(10,4) \quad R(13,-1) \quad S(8,-1)$
What is the length, in units, of side PS?
A. 2
B. 3
C. 4
D. 5
$\qquad$

1. 6.EE. 2.5

The set of numbers $1,7,11$, and 36 contains values for $m$. What value of $m$ makes the inequality $4 m+8<36$ true?

## 2. 6.EE.2.6

A national park charges $\$ 26$ per adult and $\$ 16$ per child for rafting down one of their two rivers. Write an algebraic expression that can be used to represent the total cost for $a$ adults and $c$ children to raft down the Wild River?
3. 6.EE.2.7

Draw a line from each equation to the operation that can be used to find the solution.

Equation: Operation used to solve:
$\begin{array}{ll}x+5=9 & \text { - Subtract } 4 \text { from each side. } \\ & \text { - Subtract } 5 \text { from each side. } \\ 4 x=20 & \text { - Divide each side by } 4 . \\ 5 x=20 & \text { - Multiply each side by } 4 . \\ & \text { - Divide each side by } 5 . \\ x-4=9 & \text {-Add } 4 \text { to each side. } \\ & \text { - Multiply each side by } 5 .\end{array}$
4. 6.EE. 2.8

A printer makes more than 3 copies of a book every hour. Which graph represents the number of books make in 4 hours?

5. 6.G.1.3

Graph the polygon ABCDEF, which has vertices at the following coordinates on the grid below.
$A(-4,7), \quad B(6,7), \quad C(6,-2)$,
$D(-8,-2), \quad E(-8,3), \quad F(-4,3)$

$\qquad$

1. 6.EE. 2.5

For which of the following inequalities, is -4 part of the solution set? Select all that apply.
A. $x>-5$
B. $2>x$
C. $3 x+4 \geq-8$
D. $5 x \leq 2 x-3$
E. $-6<4-2 x$

## 2. 6.EE.2.6

Read each of the following problem situations. Match each equation to the corresponding situation. The labels may be used more than once. If neither equation works, select "Neither."
The school auditorium can seat 325 students. In the auditorium there are 25 rows with the same number of seats in each row. Which equation can be used to find $x$, the number of seats in each row in the school auditorium?
A $\left.\begin{array}{|l|l|}\hline 25+x= \\ 325\end{array} \quad \begin{array}{l}\text { There are 25 soccer balls in a } \\ \text { store. The total number of soccer } \\ \text { balls and basketballs in the store is } \\ 325 \text {. Which equation can be used } \\ \text { to find } x, \text { the number of } \\ \text { basketballs in the store? }\end{array}\right]$

| B | $25 x=325$ |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |

Marissa had 25 marbles in a bag. She gave some to her brother. Her brother now has 325 marbles. Which equation can be used to find $x$, the number of marbles that Marissa gave her brother?
There are 25 cans of soup in a case. The manager of a grocery store needs to order 325 cans of soup. Which equation can be used to find $x$, the total number of cases the manager needs to order?
Cleo has a certain number of seashells. Pete has 25 seashells.
5 Together Cleo and Pete have 325 seashells. Which equation can be used to find $x$, the total number of seashells that Cleo has?
3. 6.EE.2.7

Johnny and his brothers picked 665 pounds of apples. They put the apples into boxes that each hold 35 pounds. Write and solve an equation to find $b$, the number of boxes the brothers filled.
4. 6.EE.2.8

Which graph on the number line represents $x>0.8$ ?


B:


D: | $\risingdotseq$ | -1 | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | -1 | $\mathbf{1}$ | $\boldsymbol{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 |

5. 6.G.1.3

What is the perimeter of polygon $A B C D E F$ that you graphed on Day 4 \#5?

Name: $\qquad$
$6^{\text {th }}$ Grade Math: Week 5 FSA Countdown

Date:
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## Day 1

1. 6.G.1.4

Which figure could the net below represent?

A.

B.

D.


## 2. 6.NS.1.1

Which expression is modeled by the diagram below?


| $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{3}{4}$ | $\frac{1}{4}$ |
| :---: | :---: | :---: | :---: | :---: |

A. $3 \frac{1}{4} \div \frac{3}{4}$
B. $\frac{3}{4} \div 3 \frac{1}{4}$
C. $3 \div \frac{1}{4}$
D. $\frac{1}{4} \div 3$

## 3. 6.RP.1.1

The new floor in the school cafeteria is going to be constructed of square tiles that are either gray or white and in the pattern that appears below. What is the ratio of
white tiles to the total number of tiles in the pattern?

4. 6.RP.1.2

The new floor in the school cafeteria is going to be constructed of square tiles that are either gray or white and in the pattern that appears below. If the total cost of the white tiles is $\$ 12$, what is the unit cost per white tile?

5. 6.RP.1.3

The table below shows how much money a grocery store receives for selling different amount of asparagus. If the unit rate is constant, what is the total sales for 12 pounds of asparagus?

ASPARAGUS SALES

| Number <br> of Pounds | Total <br> Sales |
| :---: | :---: |
| 4 | $\$ 10$ |
| 6 | $\$ 15$ |
| 8 | $\$ 20$ |
| 10 | $?$ |
| 12 | $?$ |

A. $\$ 22.50$
B. $\$ 25.00$
C. $\$ 30.00$
D. $\$ 32.50$

Name:
$6^{\text {th }}$ Grade Math: Week 5 FSA Countdown $\qquad$

## Day 2

1. 6.G.1.4

The net of a triangular prism and its dimensions are shown below. What is the total surface area of the prism?

A. $54 m^{2}$
B. $60 m^{2}$
C. $74 \mathrm{~m}^{2}$
D. $76 \mathrm{~m}^{2}$

## 2. 6.NS.1.1

The area of a rectangular city park is $\frac{25}{54}$ square miles. The length of the park is $\frac{5}{9}$ miles. What is the width, in miles, of the park?
A. $\frac{4}{9}$
B. $\frac{5}{6}$
C. $1 \frac{1}{54}$
D. $1 \frac{1}{5}$
3. 6.RP.1.1

A restaurant worker used 5 loaves of wheat and 2 loaves of rye bread to make sandwiches for an event. What does the ratio 7:2 mean in terms of the loaves of bread used for this event?
4. 6.RP.1.2

Felicity babysat 2 hours each night for 10 nights. She earned a total of $\$ 180$ babysitting. Felicity wants to calculate her hourly rate. How much did Felicity earn per hour babysitting?
A. $\$ 9$
B. $\$ 15$
C. $\$ 18$
D. $\$ 20$
5. 6.RP.1.3

In Ms. Perron's class, 75\% of the students are boys. There are 18 boys in the class. What is the total number of students in Ms. Perron's class?
A. 6
B. 14
C. 24
D. 57
$\qquad$

## Day 3

1. 6.G.1.4

A net of a square pyramid is shown below. What is the surface area, in square centimeters, of the pyramid?


## 2. 6.NS.1.1

The length of a rectangular parking lot at the airport is $\frac{2}{3}$ mile. If the area is $\frac{1}{2}$ square mile, what is the width of the parking lot?
A. $\frac{1}{3}$ mile
B. $\frac{3}{4}$ mile
C. $1 \frac{1}{6}$ miles
D. $1 \frac{1}{3}$ miles

## 3. 6.RP.1.1

Demetria is tiling a square area of her bathroom floor. For every 13 white tiles used, she wants to use 12 gray tiles.

On the grid, shade the tiles to show a pattern that would match the ratio of white tiles to gray tiles that Demetria would like to use. Then write a ratio to show the relationship between the number of white tiles and the number of gray tiles.

4. 6.RP.1.2

A grocery store sign indicates that bananas are 6 for $\$ 1.50$, and a sign by the oranges indicates that they are 5 for $\$ 3.00$. Find the total cost of buying 2 bananas and 2 oranges.
A. $\$ 0.85$
B. $\$ 1.70$
C. $\$ 2.25$
D. $\$ 4.50$
5. 6.RP.1.3

Carl types 180 words in 2 minutes. At this rate, how many words does Carl type in 5 minutes?

Name:
$\qquad$
Day 4

## 1. 6.G.1.4

The net below represents a cube. What is the surface area, in square centimeters, of the cube?


## 2. 6.NS.1.1

The equation shown has an unknown number. Write a fraction that makes the equation true.

$$
? \div \frac{2}{3}=\frac{3}{4}
$$

## 3. 6.RP.1.1

Last year the girls' basketball team had 8 fifth-grade students and 7 sixth-grade students. What was the ratio of sixth-grade students to fifth-grade students on the team?
A. $8: 15$
B. $8: 7$
C. $7: 8$
D. $15: 8$

## 4. 6.RP.1.2

Sydney ran 400 meters in 1 minute and 20 seconds. What was Sydney's average rate in meters per second?
A. $\frac{1}{5}$
B. 3
C. $3 \frac{1}{3}$
D. 5

## 5. 6.RP.1.3

Jodi's car used 12 gallons of gas to travel 456 miles. How many miles did her car travel per gallon of gas?
$\qquad$

## Day 5

1. 6.G.1.4

Which figure is represented by the net below?

A. triangular prism
B. square pyramid
C. rectangular prism
D. rectangular pyramid

## 2. 6.NS.1.1

A recipe requires $\frac{3}{4}$ cups of nuts for 1 cake. Enter the maximum number of cakes that can be made using $7 \frac{1}{2}$ cups of nuts.

There are 50 white stars, 7 red stripes, and 6 white stripes on the U.S. flag. What is the relationship between stars and red stripes? Select ratios that could be used to describe the relationship. Select all that apply.
A. $50: 7$
B. 7:6
C. $\frac{50}{7}$
D. $13: 50$
E. 6 to 50
F. 50 to 7
G. 50 to 13
4. 6.RP.1.2

Sebastian swam laps every day in the community swimming pool. He swam an hour each day, 5 days each week, for 12 weeks. In that time, he swam 1,800 laps. What was his average rate in laps per hour?
5. 6.RP.1.3

Mr. Anderson drove 168 miles in $3 \frac{1}{2}$ hours. He then drove the next $2 \frac{1}{4}$ hours at a rate of 5 miles per hour faster than the first rate. How many miles did Mr. Anderson drive during the $5 \frac{3}{4}$ hour road trip?

## 3. 6.RP.1.1

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$6^{\text {th }}$ Grade Math: Week 6 FSA Countdown
Period: $\qquad$

## Day 1

## 1. 6.EE.1.1

What is the value of $5 x^{3}+4 y^{3}$ when $x=4$ and $y=3$ ?

## 2. 6.EE.1.2

What is the value of the expression $6 c^{2}-5 d+8$, when $c=5$ and $d=4$ ?
A. 48
B. 79
C. 138
D. 888

## 3. 6.EE.1.3

Which expression is equivalent to $8 x-2 y+x+x$ ?
A. $4 x$
B. $8 x$
C. $6 x-2 y$
D. $10 x-2 y$
4. 6.EE.1.4

Which two expressions are equivalent to $6 \cdot v \cdot w \cdot \frac{1}{2}$ ?
A. $1 \cdot 3 \cdot v \cdot w+0$
B. $3(v+w)$
C. $3 \cdot v \cdot w$
D. $w \cdot v \cdot \frac{1}{2} \cdot 6+1$
E. $2 \cdot v \cdot w$
5. 6.EE.3.9

A train was traveling at a constant speed. The table below shows the distance, in miles, the train traveled for the first 4 hours. Write an equation to represent the relationship between $t$, the time, and $d$, the total distance traveled by the train. TRAIN TRIP

| Time (hours) | Distance (miles) |
| :---: | :---: |
| 1 | 95 |
| 2 | 190 |
| 3 | 285 |
| 4 | 380 |

Name:
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## Day 2

## 1. 6.EE.1.1

What is the value of the expression $3^{4}+9$ ?
A. 21
B. 39
C. 43
D. 90

## 2. 6.EE.1.2

Which expressions are equal to 41 when evaluated at $d=4$ ?
A. $9 d+5$
B. $7+3 d^{2}$
C. $10 d-1$
D. $11 d-\frac{12}{d}$E. $d^{3}-23$

## 3. 6.EE.1.3

Two expressions are shown below. Explain whether or not expressions $P$ and $Q$ are equivalent.

P: $2(3 x-9)$
Q: $6 x-9$
4. 6.EE.1.4

Which expression(s) are equivalent to 4 b ?
A. $b+2(b+2 b)$
B. $2(b+b)$
C. $3 b+b$
D. $2 b+2 b$
E. $2(2 b+b)$
5. 6.EE.3.9

Using the information in the table, draw a graph of the relationship between $t$, the time, and d, the total distance traveled by the train, for a trip that lasted from 0 to 7 hours.


TRAIN TRIP

| Time (hours) | Distance (miles) |
| :---: | :---: |
| 1 | 95 |
| 2 | 190 |
| 3 | 285 |
| 4 | 380 |

Name:
Date:
$6^{\text {th }}$ Grade Math: Week 6 FSA Countdown
Period: $\qquad$

## Day 3

## 1. 6.EE.1.1

Evaluate $6^{3}+7 \times 4$
A. 100
B. 244
C. 757
D. 892
2. 6.EE.1.2

Which of the following are terms in the expression $5 r-4 s-2$ ? Select all that apply.
A. 4 s
B. -4 s
C. $5 r-4 s$
D. $-5 r$
E. 5
F. -2

## 3. 6.EE.1.3

Which expressions are equivalent to $w^{8}$ ?
Select all that apply.
A. $w+w+w+w+w+w+w+w$
B. $w^{2} w^{6}$
C. $w^{3}+w^{5}$
D. $8 w$
E. $4 w^{2}$
F. $w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot w \cdot w$
4. 6.EE.1.4

Select all the expressions that are equivalent to $8(t+4)$.
A. $2(4 t+2)$
B. $8 t+32$
C. $4 t+4+4 t$
D. $(8+t)+(8+4)$
E. $(8 \times t)+(8 \times 4)$

## 5. 6.EE.3.9

A train was traveling at a constant speed. The table below shows the distance, in miles, the train traveled for the first 4 hours. If the train was traveling nonstop, how many miles would it travel in 5.5 hours?

TRAIN TRIP

| Time (hours) | Distance (miles) |
| :---: | :---: |
| 1 | 95 |
| 2 | 190 |
| 3 | 285 |
| 4 | 380 |

$\qquad$

1. 6.EE. 1.1

The expression $6^{3} \times 4^{2}$ is equivalent to which of the following numerical expressions?
A. $18 \times 8$
B. $(6 \times 4)^{5}$
C. $24^{6}$
D. $216 \times 16$

## 2. 6.EE.1.2

The formula $C=\frac{5}{9}(F-32)$ is used to convert the temperature in degrees Fahrenheit ( $F$ ) to the temperature in degrees Celsius (C). What is the temperature in degrees Celsius (C) that isequal to 113 degrees Fahrenheit (F)?

## 3. 6.EE.1.3

Write an expression that is equivalent to the following:
$4 \cdot x \cdot x \cdot x$.
4. 6.EE.1.4

Which pair of expressions is equivalent?
A. $4(6 x)$ and $10 x$
B. $4(6 x)$ and $24 x$
C. $4 x+6 x$ and $10 x^{2}$
D. $4 x+6 x$ and $24 x$

## 5. 6.EE.3.9

A table can be used to show the relationship between the number of hours a painter works painting and the total amount the painter charges for painting. The painter charges $\$ 25$ per hour to paint a room.
Complete the table to show the relationship between $h$, the number of hours the painter works, and $c$, the total amount, in dollars the painter charges for painting.

Painter's Charges

| Number of Hours $(\boldsymbol{h})$ | 1 | 2 | 3 | 4 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Total Charge for Painting $(\boldsymbol{c})$ |  |  |  |  |  |

Write an equation that can be used to find $c$, the total charge for $h$ hours of pointing.
$6^{\text {th }}$ Grade Math: Week 6 FSA Countdown

1. 6.EE.1.1

Write an expression that is equivalent to 8 using each of the following numbers and symbols once in the expression.
$\begin{array}{lllll}7 & 7 & 7 & \begin{array}{c}2 \\ \text { (exponent) }\end{array} & +\end{array}$ () $\div$
2. 6.EE.1.2

Represent the expression "A number, $x$, decreased by the sum of $2 x$ and 5 " algebraically.
A. $(2 x+5)-x$
B. $x-(2 x+5)$
C. $x-2 x+5$
D. $(x+2 x)-5$
3. 6.EE.1.3

Which expression is equivalent to $16 a+24 b$ ?
A. $4(4 a+20 b)$
B. $8(2 a+3 b)$
C. $4 a(4+6 b)$
D. $8 a b(2+3)$

## 4. 6.EE.1.4

Fill in the boxes to create an equivalent expression to $10 h+14 k$.
(Enter an integer in each box)

5. 6.EE.3.9

A table can be used to show the relationship between the number of hours a painter works painting and the total amount the painter charges for painting. The painter charges $\$ 25$ per hour to paint a room. It took the painter 13 hours to paint a room. What is the total amount, in dollars, the painter charged for painting the room? Show or explain how you got your answer.
$\qquad$

## Day 1

## 1. 6.EE.2.5

Consider the inequality $x>7$. Determine whether each value of $x$ shown in the table makes this inequality true. Select Yes or No for each value.

|  | Yes | No |
| :---: | :---: | :---: |
| 22 |  |  |
| -7 |  |  |
| 13 |  |  |
| 5 |  |  |
| -39 |  |  |

## 2. 6.EE.2.6

Jeanie has a goal to run a total of 800 laps around her school's track this year. Her plan is to run exactly 4 laps each day. Which of the following expressions represents the total number of laps Jeanie will have left to run after $d$ days?
A. $800-4 d$
B. $800 d-4$
C. $4 d-800$
D. $4-800 d$

## 3. 6.NS.2.2

Divide $16,536 \div 24$.
4. 6.NS.2.3

Gwen studies for 1.5 hours every night. What is the total number of hours Gwen studies for 5 nights?
A. 4.5 hours
B. 5.5 hours
C. 6.5 hours
D. 7.5 hours
5. 6.NS.2.4

Timothy went to a baseball game. After the game, he wanted to ride the bus home. The red line and the blue line buses both stop at the stadium.

- A red line and a blue line bus both left the stadium at $4: 00 \mathrm{pm}$.
- Red line buses were scheduled to leave the stadium every 6 minutes.
- Blue line buses were scheduled to leave the stadium every 8 minutes.
If the buses run on schedule, when is the next time a red line and a blue line bus will leave together?
$\qquad$


## Day 2

## 1. 6.EE.2.5

Which equation is true when $n=4$ ? (Select all that apply)
A. $2 n=6$
B. $3 n+2=14$
C. $\frac{16}{n}=4$
D. $n+3=7$
E. $9-n=5$
F. $\frac{n}{12}=3$

## 2. 6.EE.2.6

Admission to a state fair is $\$ 10$, and each ride ticket costs $\$ 2.50$.

Write an expression to represent the situation.
$\square$

What does the variable in your expression represent?

## 3. 6.NS.2.2

The total amount of money collected by a store for sweatshirt sales was $\$ 10,000$. Each sweatshirt sold for $\$ 40$. What was the total number of sweatshirts sold by the store?
A. 100
B. 220
C. 250
D. 400
4. 6.NS.2.3

Brady started to fill the box shown with some unit cubes. Enter the total number of cubes needed to completely fill the box. Include the unit cubes already shown in your total.

5. 6.NS.2.4

Alice and Carl each have the same total number of marbles. Alice put her marbles into groups of 4 with none left over. Carl put his marbles into groups of 10 with none left over. What is the least total number of marbles that Alice and Carl can each have?
A. 16
B. 20
C. 32
D. 40
$\qquad$

## Day 3

1. 6.EE.2.5

For which equation and/or inequality is $x=6$ a solution? Select all that apply.
A. $12-2 x=0$
B. $\frac{1}{2} x \times 4=8$
C. $3 x \div 9 \geq 2$
D. $2.5 x+4<20$
E. $20-\frac{1}{3} x=14$

## 2. 6.EE.2.6

You walk dogs in your neighborhood. You charge \$5 for each dog you walk.
Sometimes you walk more than one dog a day. Sometimes you walk the same dog several days a week. Select all the variable quantities that represent this situation.
A. The number of dogs you walk each day.
B. The amount you charge for each dog.
C. The total amount you make each day.
$\square$ D. The number of times you walk each dog every week.
$\square$ E. The breed of dogs you walk each week.
3. 6.NS.2.2

At a wedding reception, there will be 1,012 guests. A round table will seat 12 guests. How many round tables will be needed?
4. 6.NS.2.3

Lena has $\$ 87.39$ in her bank account. She deposits $\$ 5.25$ on Wednesday. On Friday, she withdraws $\$ 15$. What is the end balance in her account?

## 5. 6.NS.2.4

Machines $S$ and $T$ were both cleaned this week.

- Machine S is cleaned every 12 weeks.
- Machine T is cleaned every 8 weeks.
What is the fewest number of weeks that will pass before both machines are cleaned again in the same week?
A. 16
B. 24
C. 36
D. 48

Name:
Date:
$6^{\text {th }}$ Grade Math: Week 7 FSA Countdown $\qquad$

## Day 4

1. 6.EE.2.5

Select all equations that have $x=3$ as a solution.
A. $x+7=10$
B. $3+x=3$
C. $x \cdot 3=1$
D. $4 \cdot x=12$
E. $\frac{x}{12}=4$

## 2. 6.EE.2.6

A bowling alley charges each person $\$ 6$ to play a game and $\$ 4.50$ to rent a pair of bowling shoes.

Write an expression to show how much the bowling alley will charge $f$ friends if they each play 3 games and all but one of them rents shoes.

3. 6.NS.2.2

Divide 578 by 34 .
4. 6.NS.2.3

Carlos needs 1.7 meters of wire for one project and 0.8 meters of wire for another project. Shade the model to represent the total amount of wire Carlos needs. Each full row represents 1.0 meters.

Each full row = 1.0 meter


|  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## 5. 6.NS.2.4

Match each expression in the first column to its equivalent expression in the first row.

|  | $4(9+4)$ | $3(8+5)$ | $6(7+10)$ |
| :--- | :--- | :--- | :--- |
| $24+15$ |  |  |  |
| $42+60$ |  |  |  |
| $36+16$ |  |  |  |

Name: $\qquad$
$6^{\text {th }}$ Grade Math: Week 7 FSA Countdown
Date:
Period: $\qquad$

1. 6.EE.2.5

Which choice contains only solutions to the inequality below?

$$
\frac{1}{2} x+13>20
$$

A. $x=9, x=10, x=12$
B. $x=10, x=12, x=14$
C. $x=14, x=15, x=16$
D. $x=15, x=16, x=18$

## 2. 6.EE.2.6

If $b=11$ and $c=16$, what is the perimeter of the quadrilateral below?

[not drawn to scale]

## 3. 6.NS.2.2

Willie completed the division problem shown below.


Is his answer correct? If not, what mistake did he make?

## 4. 6.NS.2.3

Carlos needs 1.7 meters of wire for one project and 0.8 meters of wire for another project. Carlos has 2.4 meters of wire. Does Carlos have enough wire?

- If he does, answer how much wire he will have left over.
- If he does not, answer how much more he needs.

Select the value from the box below.

```
0.1
```

5. 6.NS.2.4

What is the least common multiple of 12 and 9?
A. 72
B. 36
C. 24
D. 3
$\qquad$

## Day 1

## 1. 6.EE.2.7

Nadia bought 5 tickets to attend a spaghetti supper fundraiser at her school. The equation $5 x=32.50$ can be used to find $x$, the cost of each ticket in dollars. Which equation represents the cost of each ticket?
A. $x=\frac{32.50}{5}$
B. $x=32.50(5)$
C. $x=32.50-5$
D. $x=32.50+5$

## 2. 6.EE.2.8

Amy is flying a plane for the first time. The dispatcher tells her to fly at 500 meters above the ground or higher.

Write an inequality to represent the height in meters, $h$, at which Amy can fly.
3. 6.RP.1.3

A dairy farmer uses two trucks to deliver milk. The two trucks use different kinds of fuel. Truck A uses gasoline and Truck B uses diesel. The table below shows the distance, in miles, that each truck can travel per gallon of fuel. Based on the table, what is the total number of miles Truck A can travel using 4 gallons of gasoline?
Miles Traveled per Gallon of Fuel

| Gallons <br> of Fuel | Truck A <br> (Gasoline) | Truck B <br> (Diesel) |
| :---: | :---: | :---: |
| 1 | 8 miles | 12 miles |
| 2 | 16 miles | 24 miles |
| 3 | 24 miles | 36 miles |
| 4 | $?$ miles | 48 miles |
| 5 | 40 miles | 60 miles |

## 4. 6.NS.3.6

Plot a point on the number line below that is the opposite of $-1 \frac{3}{4}$.

5. 6.NS.3.7

Let n be an integer. Tracy claims that -n must be less than 0 . To convince Tracy that his statement is only sometimes true do the following:
(1) Place $n$ on the number line so that the value of -n is less than 0 .

(2) Place $n$ on the number line so that the value of -n is greater than 0 .

$\qquad$

## Day 2

1. 6.EE.2.7

Paul bought a package of 6 spiral notebooks for a total cost of $\$ 13.50$. Which equation represents, $p$, the cost in dollars, of each notebook?
A. $p=13.50-6$
B. $p=13.50 \times 6$
C. $p=13.50+6$
D. $p=13.50 \div 6$
2. 6.EE.2.8

Simone is going snowboarding tomorrow if the temperature is colder than $5^{\circ} \mathrm{C}$.

Write an inequality to represent the temperatures, $t$, at which Simone will go snowboarding.

## 3. 6.RP.1.3

A dairy farmer uses two trucks to deliver milk. The two trucks use different kinds of fuel. Truck A uses gasoline and Truck B uses diesel. The table below shows the distance, in miles, that each truck can travel per gallon of fuel. Based on the table, what is the total number of gallons of diesel Truck B will use to travel 132 miles?
Miles Traveled per Gallon of Fuel

| Gallons <br> of Fuel | Truck A <br> (Gasoline) | Truck B <br> (Diesel) |
| :---: | :---: | :---: |
| 1 | 8 miles | 12 miles |
| 2 | 16 miles | 24 miles |
| 3 | 24 miles | 36 miles |
| 4 | $?$ miles | 48 miles |
| 5 | 40 miles | 60 miles |

## 4. 6.NS.3.6

Point $Q$ is shown on the coordinate grid below. Which statement correctly describes the relationship between the point $(-3,2)$ and point Q ?

A. It is a reflection across the $x$-axis.
B. It is a reflection across the $y$-axis.
C. They are 6 units apart.
D. They are 2 units apart.
5. 6.NS.3.7

A fish swims at an altitude of -20.2 meters. A bird flies at an altitude of 38.1 meters. Which of the following statements are true? Select all that apply.
$\square$ A. The bird's altitude is greater than the fish's altitude.
$\square$ B. The bird's altitude is less than the fish's altitude.
$\square$ C. The fish is closer to sea level than the bird.
$\square$ D. The fish is farther from sea level than the bird.
$\square$ E. The fish and the bird are the same distance from sea level.
$\qquad$

## Day 3

1. 6.EE.2.7

What is the value of $g$ ?

$$
9 g=720
$$

2. 6.EE.2.8

Fishing Adventures rents small fishing boats to tourists for day-long fishing trips. Each boat can hold at most eight people.
Additionally, each boat can only carry 900 pounds of weight for safety reasons.

Let $p$ represent the total number of people. Write an inequality to describe the number of people that a boat can hold.

## 3. 6.RP.1.3

A dairy farmer uses two trucks to deliver milk. The two trucks use different kinds of fuel. Truck A uses gasoline and Truck B uses diesel. The table below shows the distance, in miles, that each truck can travel per gallon of fuel. Gasoline costs $\$ 4$ per gallon and diesel costs $\$ 5$ per gallon. Which truck will have a lower fuel cost for a 24 -mile trip?
Miles Traveled per Gallon of Fuel

| Gallons <br> of Fuel | Truck A <br> (Gasoline) | Truck B <br> (Diesel) |
| :---: | :---: | :---: |
| 1 | 8 miles | 12 miles |
| 2 | 16 miles | 24 miles |
| 3 | 24 miles | 36 miles |
| 4 | $?$ miles | 48 miles |
| 5 | 40 miles | 60 miles |

## 4. 6.NS.3.6

Two ordered pairs are shown on a coordinate grid. Plot each listed ordered pair on its correct location on the coordinate grid.

$$
\begin{array}{ll}
\circ & (-a, b) \\
\circ & (a,-b) \\
\circ & (-c,-d)
\end{array}
$$



## 5. 6.NS.3.7

Which value is closest to 0 on a number line?
A. 12
B. $|-12.5|$
C. -11.75
D. $\mid 12.1$
$\qquad$
Day 4

1. 6.EE.2.7

Keon had some change in his pocket. Then a fiend loaned him $\$ 0.25$. Now Keon has $\$ 1.45$ in his pocket. Which equation can be used to find the original amount of money $m$ that Keon had in his pocket?
A. $m+0.25=1.45$
B. $1.45=m-0.25$
C. $m+1.45=0.25$
D. $m=1.45(0.25)$

## 2. 6.EE.2.8

A boat takes 3 hours to reach an island 15 miles away. The boat travels:

- At least 1 mile but no more than 6 miles during the first hour
- At least 2 miles during the second hour
- Exactly 5 miles during the third hour

Draw a line that can show the range of miles the boat could have traveled during the second hour, given the conditions above.

3. 6.RP.1.3

Ming is making cookies. To make 30 cookies, his recipe requires 3 eggs. Using this recipe, what is the total number of eggs he will need to make 120 cookies?
A. 6
B. 9
C. 10
D. 12
4. 6.NS.3.6

Plot the points on the coordinate plane. $(3,-4),(-1,1),(2,0),(-5,-3)$

5. 6.NS.3.7

Which statements below are true? Select all that apply.
A. -4 is located to the right of -5 on a number line.
B. 0 is located to the left of $2 \frac{1}{4}$ on a number line.
C. -6 is located to the left of -7 on a number line.
D. $2 \frac{3}{4}$ is located to the right of -2 on a number line.
$\square \quad$ E. -1 is located to the left of -3 on a number line.
$\qquad$

## Day 5

1. 6.EE.2.7

What is the value of $h$ ?

$$
21+h=345
$$

## 2. 6.EE.2.8

Ricardo has a $\$ 50$ gift card for an electronics store. He also has a coupon good for $\$ 10$ off his purchase. Let a represent the amount of merchandise Ricardo can buy from the store using his gift card and coupon. Graph the solution set for $a$ on the number line.


## 3. 6.RP.1.3

Dwayne answered $80 \%$ of the questions on a quiz correctly. If he answered 40 questions correctly, what was the total number of questions on Dwayne's quiz?
A. 32
B. 50
C. 60
D. 120

## 4. 6.NS.3.6

Lilly plotted the points $(-6,4)$ and $(-2,4)$ on a coordinate plane. Then she plotted their reflections across the $x$-axis. What are the locations of the reflected points?

## 5. 6.NS.3.7

The table below shows the high temperatures for four cities on a day in January.

| City | Elko | Winston | Pike | Belter |
| :--- | :---: | :---: | :---: | :---: |
| Temperature ( $\left.{ }^{\circ} \mathrm{F}\right)$ | -3 | -9 | -5 | -7 |

Write the cities in order from the coldest high temperature to the warmest high temperature.
$\qquad$

## Day 1

## 1. 6.SP.1.1

A statistical question is one where you expect to get a variety of answers. Determine whether each question can be classified as a statistical question. Select Yes or No for each question.

|  | Yes | No |
| :--- | :--- | :--- |
| How many hours a week do <br> people exercise? |  |  |
| How many hours are there in <br> a day? |  |  |
| How many rainbows have <br> students seen this month? |  |  |

## 2. 6.SP.1.2

Which of the following are accurate descriptions of the data distribution shown below. Select all that apply.

Age of each teacher at Quirk Prep

A. The mode is 41 years of age.
$\square$ B. The distribution has a cluster from 45 to 46 years of age.
$\square$ C. The distribution has a cluster from 47 to 49 years of age.
$\square$ D. The distribution has an outlier.
$\square$ E. The median age is 39 years.
3. 6.SP.1.3

The table below shows the points scored by Tabitha in her first four basketball games.

| Game | 1 | 2 | 3 | 4 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Points <br> Scored | 8 | 4 | 13 | 11 |  |

Tabitha's goals is to have a mean score greater than 10 points after the fifth game. What is the fewest number of points she needs to score to meet her goal?
4. 6.SP.2.4

Francis recorded his math quiz scores during the sixth grade.
$24,20,19,22,19,23,22,17,21,21,19,21$
Create a dot plot of Francis’ data.

5. 6.SP.2.5

Look at the box-and-whisker plot of pumpkin weights. What is the median pumpkin weight?

Pumpkin Weights (lb)

A. 12 lb .
B. 14 lb .
C. 15 lb .
D. 16 lb .
$\qquad$

## Day 2

1. 6.SP.1.1

Which question has statistical variability?
A. Do you own a bike?
B. How many bikes are parked at the bike rack?
C. What are the distances of my classmates' bike ride to school?
D. How much did Andy's bike cost?

## 2. 6.SP.1.2

How can you describe the shape of the distribution of data below?

A. The distribution is skewed to the left.
B. The distribution is approximately symmetrical.
C. The distribution is skewed to the right.
D. The distribution is uniform.

## 3. 6.SP.1.3

The weights of Andrew's cats are 8 pounds, 15 pounds, 18 pounds, 15 pounds, and 12 pounds. Which statements are true about the weights of Andrew's cats? Select the four that apply.
A. The mean is 13.6 pounds.
B. The median is 16 pounds.
C. The range is 10 pounds.
$\square$ D. The mode is 15 pounds.
$\square E$. The mean is greater than the median.
$\square \quad$ F. The median and the mode are the same.

## 4. 6.SP.2.4

Marissa asked her classmates how many dollars they spent the last time they went to the store. The list below shows the amounts, rounded to the nearest dollar.
$3,8,6,11,17,3,4,4,6,5,2,18,5,6,11,5,10$
Create a box plot of Marissa's data.

5. 6.SP.2.5

There were 5 players in a game.

- 2 players scored 40 points each
- 2 players scored 50 points each
- 1 player scored 90 points

What was the mean number of points scored by the 5 players in the game?
A. 36
B. 50
C. 54
D. 60
$\qquad$

## Day 3

## 1. 6.SP.1.1

Which question has statistical variability?
A. What are the daily low temperatures from last month?
B. What was the coldest temperature last month?
C. What was the average temperature last month?
D. How many days had high temperatures below $0^{\circ} \mathrm{F}$ in the last month?
2. 6.SP.1.2

The following data represent the number of times a river has flooded per year for the past 10 years.

$$
\{4,3,3,2,10,5,4,2,8,3\}
$$

What is the median of the data?
3. 6.SP.1.3

Which of the following statements is not true?
A. The median is a measure of the center of a data set.
B. The mean is a measure of the variability of a data set.
C. A dot plot shows the least and greatest values of a data set.
D. A box plot shows the interquartile range of a data set.

## 4. 6.SP.2.4

The histogram shows the number of hours that the students in one sixth-grade class spent on homework in one week.


Which statements below are true given the information in the histogram? Select all that apply.
A. Three students spent 5-8 hours on homework.
B. Four students spent more than 12 hours on homework.
$\square$ C. The interval with the greatest frequency is $9-12$ hours.
$\square$ D. Six students spent less than 9 hours on homework.
$\square$ E. You cannot find the mode of these data.
5. 6.SP.2.5

A salesperson records the number of miles she travels each week. The table below shows the number of miles the salesperson traveled each week for 5 weeks. What is the median number of miles traveled by the salesperson? Show or explain your reasoning.

Weekly Travel

| Week | 1 | 2 | 3 | 4 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Number of <br> Miles Traveled | 216 | 210 | 250 | 225 | 209 |

$\qquad$

## Day 4

1. 6.SP.1.1

A baker is looking to gather information about the products sold at her bakery. Place a check mark next to each statistical question. Select all that apply.
A. How many bagels are in a dozen?
B. How many chocolate chips are in each muffin found in a box of muffins?
$\square$ C. How many calories are there in each type of muffin sold at the bakery?
$\square$ D. Do bagels have the same number of calories as muffins?
$\square$ E. How many of each type of bagel was sold at her bakery today?

## 2. 6.SP.1.2

The following data represent the number of times a river has flooded per year for the past 10 years.

$$
\{4,3,3,2,10,5,4,2,8,3\}
$$

What is the interquartile range of the data?

## 3. 6.SP.1.3

Circle the correct term in each box to correctly complete the statements below.
I. The interquartile range describes how data vary from the

| mean <br> median <br> mode |
| :--- |

II. The mean absolute deviation describes how data vary from the mean . median mode
$\qquad$

## 1. 6.SP.1.1

Nadia wants to use the question "Do you watch television every day?" to conduct a survey.
Is her question a statistical question? If yes, explain how you know. If not, how could she change the question so that it is?

## 2. 6.SP.1.2

Which of the following are accurate descriptions of the data distribution shown below. Select all that apply.

Price of each order at Winstin's Seafood Cafe


Price (in dollars)
A. The distribution is skewed to the left.
$\square$ B. The distribution is approximately symmetrical.
$\square$ C. The distribution is skewed to the right.
$\square$ D. The mean price is seven dollars.
$\square$ E. The median price is seven dollars.
$\square \quad$ F. The interquartile range is seven dollars.

## 3. 6.SP.1.3

Lynn sells homemade jewelry on the Internet. The list below shows prices for various types of jewelry on her website.

Earrings - \$13
Bracelets - \$10
Necklaces - \$13
Rings - \$7
Watches - \$21

Which of these statements describes how the prices vary?
A. The mean is $\$ 12.80$.
B. The median is $\$ 13$.
C. The mode is $\$ 13$.
D. The range is $\$ 14$.
4. 6.SP.2.4

Which question can be answered by reading the box plot?

Number of math problems assigned by Ms. O'Brien

A. What is the mean?
B. Which data value occurs most frequently?
C. How many data values are there?
D. Between which two numbers is the middle half of the data?

## 5. 6.SP.2.5

A salesperson records the number of miles she travels each week. The table below shows the number of miles the salesperson traveled each week for 5 weeks. The salesperson plans to travel 402 miles in week 6 . Which measure, median or mean, will change more when the number of miles for week 6 is included in the data? Show or explain how you got your answer.

Weekly Travel

| Week | 1 | 2 | 3 | 4 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Number of <br> Miles Traveled | 216 | 210 | 250 | 225 | 209 |

## Week 1 - Grade 6

|  | Standard | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 6.EE.1.1 | $C$ | 12 | $(3)^{4}+36$ <br> or <br> $(3)^{4}+6^{2}$ | 12 layers | 11 |
| 2 | 6. NS.1.1 | $<, \geq, \geq,<$ | 18 scarves | 2 L | D | $\frac{2}{3}$ |
| 3 | 6.NS.2.2 | 477 | 11 ft. | 348 | 48 R17 | 105 R 23 |
| 4 | 6.NS.2.3 | 70.543 | 2.712 | 1.70829 | 7030 | $\$ 7.32$ |
| 5 | $6 . N S .2 .4$ | 7 | 24 | 18 students | $12(2+3)$ | 35 |


| Week 2 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 1 | 6.EE.1.2 | $3^{3}+5^{3}$ | B | $2 x-7$ | B | A |
| 2 | 6.NS.3.5 | positive | -2 | B | A | A |
| 3 | $6 . N S .3 .6 ~$ | $(-7,-4)$ | A | $\frac{35}{4}$ or $8 \frac{3}{4}$ | B | B |
| 4 | $6 . N S .3 .7 ~$ | F, T, F, T | A | F, T, T | D | D |
| 5 | 6.NS.3.8 | D | D | A | 6 units | B |


| Week 3 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 1 | 6.EE.1.3 | B | A | answers may vary $\text { Ex: } 4 x-20$ | A | $10 x+35$ |
| 2 | 6.EE.1.4 | Yes... | They are equivalent because... | Jenna | A, B | Yes. In both cases the clerk ran up 4 bags of apples and 3 bags of grapes with a \$2 off deal. |
| 3 | 6.EE.3.9 | B | $y=40+x$ | C | $\begin{gathered} \text { Missing time: } 5 \\ \text { Missing distances: } \\ 80,320 \\ d=40 \mathrm{~h} \end{gathered}$ | $x=150 \mathrm{~m}$ |
| 4 | 6.G.1.1 | A | $168 \mathrm{~cm}^{2}$ | C | T, F, T, F | $114 \mathrm{ft}^{2}$ |
| 5 | 6.G.1.2 | $\begin{gathered} 4 \times 9 ; 18 \times 2 ; \text { or } \\ 12 \times 3 \end{gathered}$ | $96 \mathrm{in}^{3}$ | Ben is not correct... | D | $18 \frac{3}{4} \mathrm{~cm}^{2}$ |


| Week 4 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| $\mathbf{1}$ | $6 . E E .2 .5$ | D | A, D, E | $m=7$ | $m=1$ | B, C, D, E |
| 2 | $6 . E E .2 .6$ | C | B | $2(7)+15 d+9 c$ <br> or <br> $15 d+9 c+14$ | $26 a+16 c$ | B, A, C, B, A |
| 3 | $6 . E E .2 .7$ | $x=6$ | C | A | Subtract 5, divide <br> by 4, divide by 5, <br> add 4 | $35 b=665$ <br> $b=19$ boxes |
| 4 | $6 . E E .2 .8$ | B | A | open circle at 1 $1 / 2$ <br> with arrow going <br> left | D | D |


| 5 | 6.G.1.3 | A | T, F, F, F, F | D | correct graph | 46 units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| Week 5 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 1 | 6.G.1.4 | A | C | $85 \mathrm{~cm}^{2}$ | $8.64 \mathrm{~cm}^{2}$ | C |
| $\mathbf{2}$ | 6. NS.1.1 | A | B | B | $1 / 2$ | 10 cakes |
| 3 | 6.RP.1.1 | $8: 18$ or 4:9 | For every seven <br> loaves of bread <br> used, 2 of them <br> were rye. | $(12$ shaded <br> squares $)$ <br> $13: 12$ | C | A, C, F |
| 4 | 6.RP.1.2 | $\$ 1.50 /$ tile | A | B | D | 30 laps $/ \mathrm{hour}$ |
| 5 | 6.RP.1.3 | C | B | 450 words | 38 miles | $287 \frac{1}{4} \mathrm{mi}$ |


| Week 6 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 1 | $6 . E E .1 .1$ | 356 | D | B | D | $\left(7+7^{2}\right) \div 7$ |
| 2 | $6 . E E .1 .2$ | 178 | A, D, E | B, F | $45^{\circ} \mathrm{C}$ | B |
| 3 | $6 . E E .1 .3$ | D | They are not <br> equivalent... | B, F | answers may vary <br> Ex: $4 x^{3}$ | B |
| 4 | $6 . E E .1 .4$ | A, C | B, C, D | B, E | B | 2,7 |
| 5 | $6 . E E .3 .9$ | $d=95 t$ | (correct graph) | 512.5 miles | Missing table values: <br> $25,50,75,100,125$ <br> $c=25 h$ | $\$ 325$ |


| Week 7 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 1 | 6.EE.2.5 | Y, N, Y, N, N | B, C, D, E | A, C, D | A, D | D |
| 2 | 6.EE.2.6 | A | $2.5 t+10$ <br> $t$ represents the number of ride tickets purchased | A, C, D | $\begin{gathered} 6 f+4.5(f-1) \\ \text { or } \\ 6 f+4.5 f-4.5 \\ \text { or } \\ 10.5 f-4.5 \\ \hline \end{gathered}$ | 41 in |
| 3 | 6.NS.2.2 | 689 | C | 85 round tables | 17 | His answer is incorrect. He wrote the 8 in the wrong place value in his quotient. |
| 4 | 6.NS.2.3 | D | 210 cubes | \$77.64 | (2 and 5 tenths should be shaded) | 0.1 ; <br> He does not have enough wire. He needs 0.1 meter more. |
| 5 | 6.NS.2.4 | 4:24 pm | B | B | $\begin{aligned} & 24+15=3(8+5) \\ & 42+60=6(7+10) \\ & 36+16=4(9+4) \\ & \hline \end{aligned}$ | B |


| Week 8 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| $\mathbf{1}$ | 6.EE.2.7 | A | D | $g=80$ | B | $h=324$ |
| 2 | $6 . E E .2 .8$ | $h \geq 500$ | $t<5$ | $0<p<8$ | (correct graph) | (closed circle at <br> 60 with arrow <br> going left) |
| 3 | 6. RP.1.3 | 32 mi | 11 gal | Truck B | D | B |
| 4 | 6.NS.3.6 | (correct graph) | B | (correct graph) | (correct graph) | $(-6,-4)$ <br> and <br> $(-2,-4)$ |
| 5 | $6 . N S .3 .7$ | (correct graph) | A, C | C | A, B, D | Winston, Belter, <br> Pike, Elko |


| Week 9 - Grade 6 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| 1 | $6 . S P .1 .1$ | Y, N, Y | C | A | B, C, E | No... (questions <br> may vary) |
| 2 | $6 . S P .1 .2$ | A, C | B | 3.5 | $3-5$ | C, E, F |
| 3 | $6 . S P .1 .3$ | 12 points | A, C, D, F | B | I. median <br> II. mean | D |
| 4 | $6 . S P .2 .4$ | (correct graph) | (correct graph) | B, C, E | (correct graph) | D |
| 5 | $6 . S P .2 .5$ | C | C | 216 mi | 222 mi | The mean will <br> change more <br> because... |

