Incoming Eighth Grade Summer Reading Assignment

In order to prepare for the 8th grade trip to the East Coast, you must choose one of the following historical fiction novels to read. While you are reading the book, please complete the assignment listed below. You will also be tested on the novel during the first week of class.

Novels to choose from: (please choose one which you have not previously read!)

Johnny Tremain by Esther Forbes
My Brother Sam is Dead by James Lincoln Collier and Christopher Collier
The Witch of Blackbird Pond by Elizabeth George Speare
The Fighting Ground by Avi
The Secret of Sarah Revere by Ann Rinaldi
Chains by Laurie Halse Anderson
Forge by Laurie Halse Anderson (sequel to *Chains)*

Part One: Reading Log

For each book, keep a reading log. The reading log can be handwritten or typed, and it should follow the example format on the back of this paper. Each entry should include the following:

1. Key characters in the section (some names will be repeated from section to section)
2. Setting: where the section takes place, could be multiple locations
3. One paragraph summary (6-8 sentences) of the main events in the section
4. One memorable quote from each section with the page number. Include a one-sentence explanation as to why you think it is a memorable/important quote.

The books should be broken up in the following manner:
Johnny Tremain and *My Brother Sam is Dead:* one reading log entry per chapter
The Witch of Blackbird Pond and *The Secret of Sarah Revere:* one reading log entry for every 2 chapters
Chains and *Forge*: one reading log for every 4 chapters
The Fighting Ground: one reading log entry for every 6 time intervals (the novel is written in time increments, not chapters)

Part Two: In-class assessment

During the first full week of school, you will be tested on the novel. You will be allowed to use both your book and completed reading log on the test. On the day of the assessment, you will turn in the reading log for a grade.

Summer Reading Log

Title:_____
Chapter/Section:_____

Key characters:_____
_____

Setting:_____
_____

Summary:_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

Key quote & page. #: _____
_____
_____

Explanation of quote:_____
_____
_____

June 2014

Dear Incoming Seventh and Eighth Grade Parents and Students,

As we all anticipate the fun of summer, it is also important for our students to keep their math skills sharpened. The Summer Math requirements this year consist of ten sets of twenty review problems to be completed over the course of the summer. These problem sets are linked to the websites of each of the Middle School math teachers. If you would like a printed copy of the problem sets please let the Middle School office know by Friday, June 6th. The students will receive an answer sheet packet the last week of school. There is also an answer sheet attachment linked to the websites if you need additional copies. The students only need to return the answer sheets in September.

We recommend that the work be spread throughout the summer months so that the students maintain the skills which they have learned. It may be useful to look at your summer schedule, take into consideration vacation trips, and map out a program that allows you to complete one or two problem sets a week. This will be the most effective way to review before school resumes in September.

This packet of ten problem sets, combined with a quiz in September (based on the packet), will count for 50 points in the 1st trimester. It is important that **all work be shown** on the answer sheet, in order to receive full credit for the packet. We cannot see the work that is "done in your head." Because we believe that it is important to **practice correctly**, we have included answers to the assigned problems (another reason that you should show your work to justify your answers). These answers are also linked to the websites. When you have finished working on a weekly problem set, BE SURE TO CHECK YOUR ANSWERS. If you have done a problem incorrectly, go back and redo it, showing your corrected work.

Some things to remember:

- **Show all your work.**
- Put your name on each lesson, with the lesson number.
- Staple the lessons, in order, before you turn them in.
- Always simplify answers, if possible.
- Label all measurements.
- Circle answers.
- **Show all your work.** ☺

We wish you an enjoyable summer and look forward to the start of a great year in September.

Sincerely,

The Middle School Math Department

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8th Grade
WEEK ONE

SHOW YOUR WORK

Name: _____

1. Great-Aunt Gertie celebrated her ninety-sixth birthday in 1995. In what year was she born?

2. The farmer harvested 6000 bushels of grain from 50 acres. The crop produced an average of how many bushels of grain for each acre?

3. One pint is what percentage of one gallon?

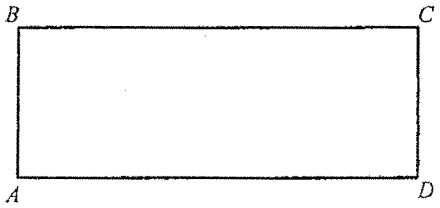
4. At the beginning of the day there were 539 tickets available for the ball game. By the end of the day, all but 93 tickets were sold. How many tickets were sold?

5. Use digits to write thirty million, eight hundred seventy thousand, four hundred thirty.

6. Use the numbers 2, 5, and 7 to illustrate the associative property of multiplication.

7. Show this subtraction problem on a number line: $6 - 5$

8. Refer to rectangle $ABCD$ to answer questions (a) and (b).



(a) Which side of the rectangle is parallel to side CD?
(b) If AD is 29 mm and AB is 14 mm, what is the area of the rectangle?

9. Simplify: $1\frac{7}{5}$

10. Write $10\frac{1}{4}$ as an improper fraction.

11. Complete each equivalent fraction.
(a) $\frac{5}{7} = \frac{?}{28}$ (b) $\frac{1}{2} = \frac{?}{28}$

12. Draw a $117°$ angle using a protractor.

8th Grade
WEEK ONE

SHOW YOUR WORK **Name:** _____

Find the missing number:

13.
$$\begin{array}{r} G \\ -\ 2402 \\ \hline 6272 \end{array}$$

14.
$$\begin{array}{r} S \\ \times\ 35 \\ \hline 735 \end{array}$$

15. Which of the following does not equal $2\frac{6}{7}$?

(a) $1\frac{13}{7}$ (b) $2\frac{12}{14}$ (c) $1\frac{7}{8}$ (d) $\frac{40}{14}$

16. Simplify. Express the answer as a mixed number. $\frac{2}{9}+\frac{1}{9}+\frac{8}{9}$

Simplify:

17. $\frac{10}{13}-\frac{8}{13}$

18. $\left(\frac{1}{2}\right)^4$

19. $\sqrt{169}$

20. Evaluate: $v(w-x)$ if $v=-3$, $w=3.8$, and $x=3.7$

8th Grade
WEEK TWO

SHOW YOUR WORK

Name: _____

1. All of the members of the Sonnerburg family are very tall. Their heights are 79 inches, 80 inches, 76 inches, 78 inches, and 72 inches. What is the average height of the 5 Sonnerburgs?

2. Dale bought 8 pounds of bananas for $0.77 per pound and paid for them with a ten-dollar bill. How much money should he get back in change?

3. One month there were 6027 visitors at Harborton Aviary. Of these visitors, 3283 had discount entrance vouchers. How many visitors paid regular price?

4. The perimeter of a square is 36 meters. Find the area of the square.

5. Read the following statement. Then answer the question that follows.

   Three eighths of the 64 fish in the aquarium were goldfish.

   How many of the fish in the aquarium were not goldfish?

6. If the perimeter of a square is 3 feet, how many inches long is each side of the square?

7. Write $\frac{10}{4}$ and $\frac{4}{10}$ with common denominators and add them.

8. (a) Round 78,722 to the nearest thousand.
   (b) Round 78,722 to the nearest hundred.

9. Estimate: $1483 \div 54$

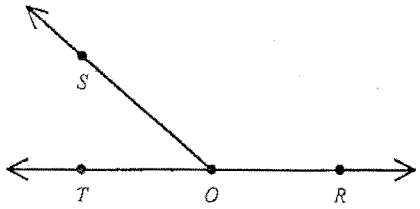
10. Reduce: $\frac{240}{600}$

11. Write these fractions with common denominators and compare them.
    $\frac{3}{12} \bigcirc \frac{1}{4}$

12. What is the least common multiple of 2 and 10?

SHOW YOUR WORK Name: _____

13. If $\angle ROS$ is obtuse and $\angle TOR$ is straight, what kind of angle is $\angle TOS$?



14. (a) Write the prime factorization of 2025.
(b) Find $\sqrt{2025}$.

Find the missing number:

15. $$\begin{array}{r} U \\ \times\ 15 \\ \hline 555 \end{array}$$

16. $$\begin{array}{r} 2231 \\ +\ R \\ \hline 4370 \end{array}$$

17. $$\begin{array}{r} 6174 \\ -\ S \\ \hline 2088 \end{array}$$

18. Write $\frac{11}{5}$ and $\frac{5}{11}$ with common denominators and add them.

Simplify:

19. $4\frac{1}{12} \div \left(5\frac{3}{5} + 2\frac{1}{10}\right)$

20. $6\frac{1}{2} \div \frac{4}{3}$

8th Grade
WEEK THREE

SHOW YOUR WORK

Name: _____

1. A box contained only milk chocolates and dark chocolates. If the ratio of dark chocolates to milk chocolates was 5 to 3, what fraction of the chocolates were dark chocolates?

2. Bob ran 4 laps in 5 minutes 4 seconds.
   (a) How many seconds did it take Bob to run 4 laps?
   (b) Bob's average time for running each lap was how many seconds?

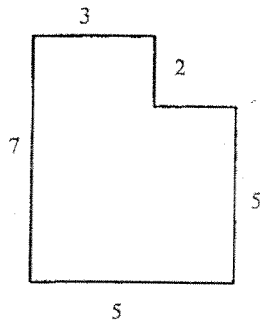
3. Tonia paid for 3 pounds of pears with a $20 bill. She got back $18.50. What was the cost of 1 pound of pears?

4. Draw a diagram of this statement. Then answer the questions that follow.

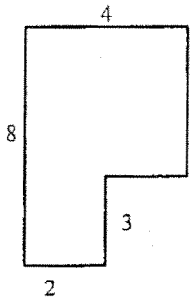
   Eighty-eight thousand dollars was raised in the charity drive. This was four fifths of the goal.

   (a) The goal of the charity drive was to raise how much money?
   (b) The charity drive fell short of the goal by what percentage?

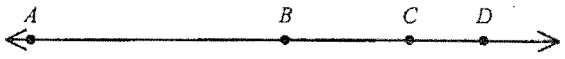
5. Find the perimeter of this figure. Dimensions are in feet.



6. Find the area of this figure. Dimensions are in centimeters.



7. Segment AB is 64.04 mm long. Segment CD is 16.01 mm long. Segment AD is 112.07 mm long. How long is segment BC?



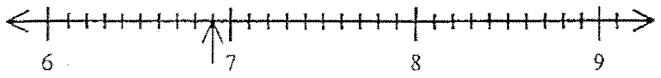
8. The length of a line segment is 33 mm. How long is the segment in centimeters?

9. Round 0.396862 to the nearest thousandth.

10. The measurements of two angles of a triangle are 46° and 42°. Find the measurement of the third angle.

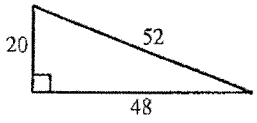
SHOW YOUR WORK Name: _____

11. What decimal number names the point marked with an arrow on this number line?



12. Write ninety-one and fifty-nine hundredths as
(a) a decimal number.
(b) a mixed number.

13. Find the area of this triangle. Dimensions are in meters.



Simplify:

14. 2.7×2.7

15. $4.97 \div 7$

16. $8\frac{5}{7} - 4\frac{6}{7}$

17. $4\frac{4}{9} \cdot 1\frac{2}{5}$

18. $8\frac{1}{2} \div \frac{4}{3}$

19. Solve: $\frac{a}{30} = \frac{16}{20}$

20. Simplify: $6.19 - 0.62$

8th Grade
WEEK FOUR

SHOW YOUR WORK Name: _____

1. The price of the office chair was $83.00. The tax rate was 5%.
   (a) What was the tax on the office chair?
   (b) What was the total price of the office chair including tax?

2. Tonia paid for 5 pounds of pears with a $10 bill. She got back $7.50. What was the cost of 1 pound of pears?

3. The ratio of green beans to sweet peas in the garden was 2 to 1. What was the ratio of sweet peas to green beans?

4. One month Lane's weekly grocery bills were $87.07, $118.93, $92.29, and $95.91. Find Lane's average weekly grocery bill.

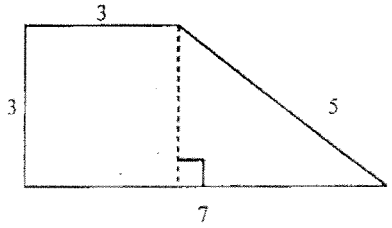
5. Simplify: $17.96 - 0.918$

6. Draw a diagram of this statement. Then answer the questions that follow.

   Seventy-eight thousand dollars was raised in the charity drive. This was three fifths of the goal.

   (a) The goal of the charity drive was to raise how much money?
   (b) The charity drive fell short of the goal by what percentage?

7. Find the area of this figure. Dimensions are in centimeters.



8. Write 0.055 as a fraction.

9. Divide 3.8 by 27 and write the quotient with a bar over the repetend.

SHOW YOUR WORK Name: _____

10. Simplify: $1\frac{7}{4}$

11. The perimeter of a square is 40 inches. Find the area of the square.

12. Solve: $\frac{3}{p} = \frac{15}{20}$

Simplify:

13. $2.73 \div 3$

14. $13.44 - 1.571$

15. $6^2 + 3^2$

16.
$$\begin{array}{rrrr} & 9 \text{ hr} & 50 \text{ min} & 22 \text{ sec} \\ + & 8 \text{ hr} & 46 \text{ min} & 7 \text{ sec} \\ \hline \end{array}$$

17. $3\frac{2}{5} - 2\frac{3}{4}$

18. $3\frac{1}{2} \div \frac{4}{3}$

19. Write 5.42 billion in standard form.

20. Divide: $2.4 \div 0.016$

8th Grade
WEEK FIVE

SHOW YOUR WORK

Name: _____

1. If a gallon of milk costs $2.32, what is the cost per quart?

2. The cookie recipe called for oatmeal and raisins in the ratio of 8 to 7. If 3 cups of oatmeal were called for, how many cups of raisins were needed?

3. Frank ran a 400-meter race 3 times. His fastest time was 50.6 seconds. His slowest time was 56.2 seconds. If his average time was 54.0 seconds, what was his time for the other race?

4. It is $1\frac{1}{3}$ miles to the end of the trail. If Adele walks to the end and back in 60 minutes, what is her average speed in miles per hour?

5. What number is 40% of 50?

6. Read the following statement. Then answer the questions that follow.

   Four ninths of those who rode the Giant Gyro at the fair were delirious. All the rest were dazed.

   (a) What fraction of those who rode the Giant Gyro were dazed?
   (b) What was the ratio of those who were delirious to those who were dazed?

7. (a) Write 0.0000764 in scientific notation.
   (b) Write 2.88×10^{-5} in standard form.

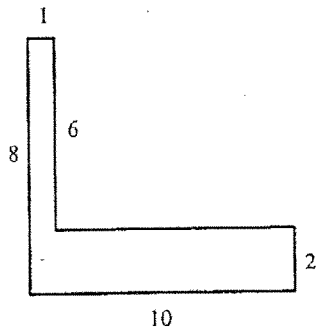
8. Name a polygon with 4 sides.

9. Use a unit multiplier to convert 2760 yards to feet.

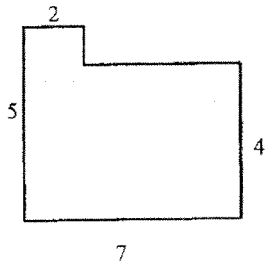
10. Complete the table.

Fraction	Decimal	Percent
		90%
$\frac{9}{40}$		

11. Find the perimeter of this figure. Dimensions are in feet.



12. Find the area of this figure. Dimensions are in meters.



13. Solve: $\frac{5}{8} = \frac{r}{48}$

Simplify:

14. $6.71 + 7 + 9.9$

SHOW YOUR WORK Name: _____

Simplify:

15. $2+2\times2-2\div2$

16. $2^6-\sqrt{729}+6^3$

17.
$$\begin{array}{r} 7\text{ yd}\quad 2\text{ ft} \\ +\ 4\text{ yd}\quad 2\text{ ft}\quad 9\text{ in.} \\ \hline \end{array}$$

18. $4\frac{1}{6}\div\left(3\frac{1}{8}+1\frac{2}{3}\right)$

19. $1\frac{1}{10}\div\left(1\frac{1}{4}\cdot 4\right)$

20. $3.66\div6$

8th Grade
WEEK SIX

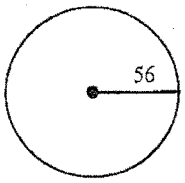
SHOW YOUR WORK

Name: _____

1. It was 119 kilometers from Persy to Rimrock. Jonathan raced to Rimrock and idled back to Persy. If the round trip took 7 hours, what was his average speed in kilometers per hour?

2. The ratio of sheeps to goats was 9 to 2. If there were 341 sheeps and goats in all, how many were goats?

3. What is the circumference of this circle? Use $\frac{22}{7}$ for π. Dimensions are in inches.



4. Macadamia nuts were priced at 3 pounds for $8.01.
   (a) What was the price per pound?
   (b) At the same price per pound, how much would 9 pounds of macadamia nuts cost?

5. Simplify: $8.15 + 4 + 3.3$

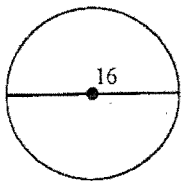
6. Read the following statement. Then answer the questions that follow.

   Blake bought the jeans for $56. This was $\frac{7}{10}$ *of the regular price.*

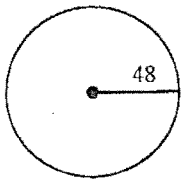
   (a) What was the regular price of the jeans?
   (b) Blake bought the jeans for what percentage of the regular price?

7. A rectangular prism has how many faces?

8. Find the circumference of each circle:
   (a) Use 3.14 for π. Dimensions are in inches.



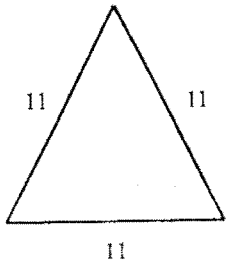
   (b) Leave π as π. Dimensions are in meters.



9. Write 19×10^9 in scientific notation.

10. (a) Define isosceles triangle.
    (b) Define right triangle.

11. Classify the triangle by its sides.



12. Simplify: $(3 \cdot 5)^2 - 3(5)^2$

13. How much money is 50% of $3000?

SHOW YOUR WORK Name: _____

14. Complete the table.

Fraction	Decimal	Percent
		90%
$\frac{1}{40}$		

15. Use a unit multiplier to convert 1680 yards to feet.

Solve:

16. $\frac{b}{8}=\frac{36}{12}$

17. $\frac{3}{5}=\frac{e}{15}$

Simplify:

18. $12.86-2.108$

19. $(-2)-(-9)+(-9)$

20. $1\frac{2}{7}\div\left(1\frac{3}{4}\cdot 4\right)$

8th Grade
WEEK SEVEN

SHOW YOUR WORK

Name: _____

1. Bane mowed lawns for 2 hours and earned \$6.60 per hour. Then he washed windows for 5 hours and earned \$5.90 per hour. What were Bane's average earnings per hour for all 7 hours?

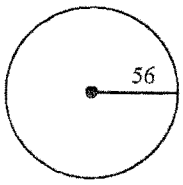
2. Evaluate: $w+\left(w^2-wx\right)-x$ if $w=12$ and $x=3$

3. Compare: $b \bigcirc c$ if $\frac{b}{c}=1$

4. The ratio of bunnies to hares was 6 to 5. If there were 352 bunnies and hares in all, how many were hares?

5. A car travels 60 miles on 4 gallons of gas. How many gallons will it need to travel 225 miles?

6. What is the circumference of this circle? Use $\frac{22}{7}$ for π. Dimensions are in inches.



7. The coordinates of the vertices of ΔABC are $A(-6, 3)$, $B(-3, 3)$, and $C(-5, 6)$. Graph ΔABC and its image after a reflection across the x-axis.

8. Graph on a number line: $x>6$

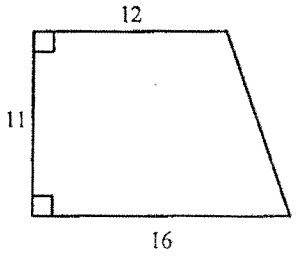
9. Julie needed 40 inches of string for her project. She used $\frac{2}{7}$ of a full spool of string. How many inches of string were on the full spool?

10. Simplify: (a) $-1(-2)$
    (b) $-2(+8)$
    (c) $\frac{-8}{-4}$
    (d) $\frac{15}{-5}$

11. Complete the table.

Fraction	Decimal	Percent
$\frac{27}{50}$		
	0.375	

12. Find the area of the trapezoid. Dimensions are in inches.



13. Forty-five is $\frac{3}{5}$ of what number?

14. What percent of 10 is 1?

Solve:

15. $\frac{v}{6}=\frac{16}{12}$

SHOW YOUR WORK Name: _____

Solve:

16. $\frac{9}{4} = \frac{t}{28}$

Simplify:

17. $\frac{25\frac{2}{7}}{92}$

18. $16 \div 4 \times 4 + 9 - 7$

19. $9\frac{1}{2} \div \frac{4}{5}$

20. $(-9) - (-8) + (-9)$

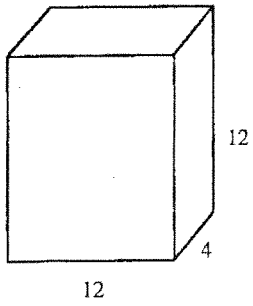
8th Grade
WEEK EIGHT

SHOW YOUR WORK

Name: _____

1. In the forest there were lions and tigers and bears. The ratio of lions to tigers was 6 to 5. The ratio of tigers to bears was 4 to 5. If there were 24 lions, how many bears were there?

2. Find the volume of the rectangular prism. Dimensions are in yards.



3. A baseball player's batting average is found by dividing the number of hits by the number of at-bats and rounding the result to the nearest thousandth. If Marc had 26 hits in 65 at-bats, what was his batting average?

4. Use two unit multipliers to convert 81 square feet to square yards.

5. Graph the negative integers greater than -8.

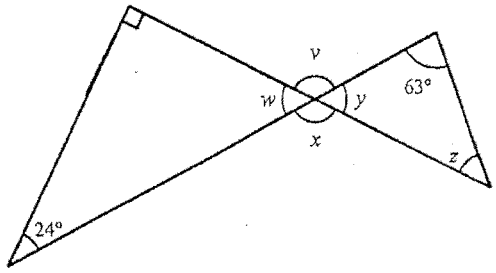
6. How many degrees is $\frac{1}{5}$ of a circle?

7. Read the following statement. Then answer the questions that follow.

Donald bought the shirt for \$49. This was $\frac{7}{10}$ *of the regular price.*

(a) What was the regular price of the shirt?
(b) Donald bought the shirt for what percentage of the regular price?

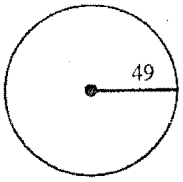
8. Use the information in this figure to answer questions (a) and (b).



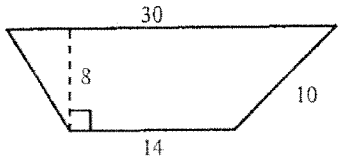
(a) What is m$\angle w$?
(b) What is m$\angle z$?

9. How many diagonals can be drawn from one vertex of a regular hexagon?

10. What is the circumference of this circle? Use $\frac{22}{7}$ for π. Dimensions are in inches.



11. Find the area of the trapezoid. Dimensions are in millimeters.



12. Compare: $a^2 \bigcirc a$ if $a = 0.4$

13. Complete the table.

Fraction	Decimal	Percent
	0.95	

SHOW YOUR WORK Name: _____

14. What percent of 80 is 8?

15. Last week, thirty percent of the 5000 fast-food customers ordered a soft drink. How many of the customers did not order a soft drink?

16. Multiply. Express the product in scientific notation. $\left(4\times10^{5}\right)\left(7\times10^{-3}\right)$

Solve:

17. $\frac{h}{12}=\frac{25}{30}$

18. $\frac{4}{7}=\frac{v}{63}$

Simplify:

19. $\left(-6x^{2}\right)\left(4xy^{2}\right)$

20. $(-8)-(+3)(-6)-(-2)(-7)$

8th Grade
WEEK NINE

SHOW YOUR WORK Name: _____

1. After taking 7 quizzes, your average is 78 out of 100. What must your average be on the next five quizzes to increase your average to 83?

2. Of the 66 students in the club, 12 were girls. What was the ratio of boys to girls in the club?

3. If 18 kilograms of seed cost $38, how much would 36 kilograms cost at the same rate?

4. What is the probability that a flipped coin will land heads up two times in a row?

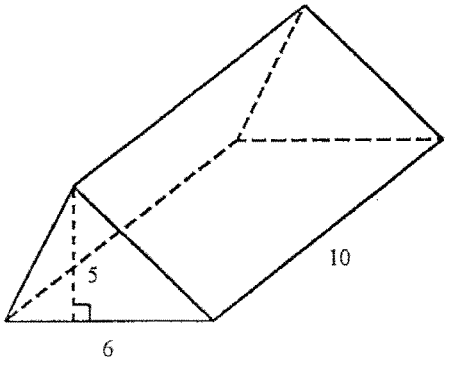
5. Because of heavy rains, the cost of cherries increased by 40 percent in one month. If the cost after the increase was 49¢ per pound, what was the cost before the increase?

6. What percent of 15 is 3?

7. Use two unit multipliers to convert 200 square meters to square centimeters.

8. If $w = -5$ and $x = 7w - 4$, then x equals what number?

9. Find the volume of the right triangular prism. Dimensions are in meters.



10. Complete the table.

Fraction	Decimal	Percent
		48%
$\frac{2}{5}$		

SHOW YOUR WORK Name: _____

11. The price of the stereo was $98.00. The tax rate was 6%.
    (a) What was the tax on the stereo?
    (b) What was the total price of the stereo including tax?

12. Multiply. Express the product in scientific notation. $\left(4\times10^{3}\right)\left(7\times10^{-5}\right)$

13. Graph the whole numbers less than 5.

Solve:

14. $2\frac{1}{2}p=120$

15. $0.5p-1.5=0.9$

Simplify:

16. $(7\cdot3)^{2}-7(3)^{2}$

17. $\left(7x^{3}\right)\left(-4x^{3}y\right)\left(6x^{2}y^{3}\right)$

18. $3\frac{2}{3}-2\frac{3}{4}$

19. Collect like terms: $3cq+2c+2cq-7c$

20. Simplify: $-15-15+18-19$

8th Grade
WEEK TEN

SHOW YOUR WORK

Name: _____

1. Will's average score on the first 5 tests was 88. On the next 3 tests his average score was 84. What was his average score on all 8 tests?

2. Because of a sudden freeze, the cost of bananas increased by 30 percent in one month. If the cost after the increase was 78¢ per pound, what was the cost before the increase?

3. What percent of 25 is 5?

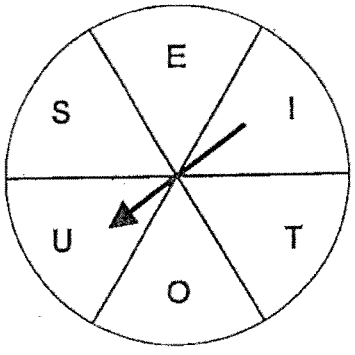
4. Use two unit multipliers to convert 250 square centimeters to square millimeters.

5. There were 3 dented cans in the carton. This was $\frac{1}{3}$ of the total number of cans in the carton. How many cans were in the carton?

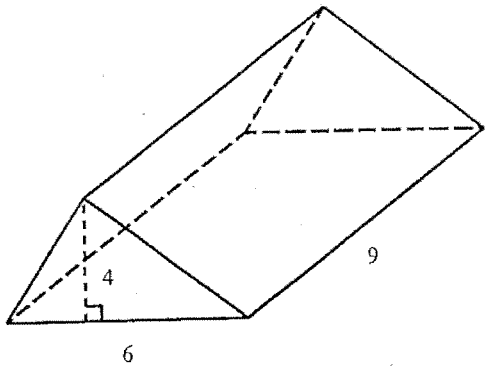
6. Evaluate: $\frac{e+f}{g}$ if $e=-7$, $f=-6$, and $g=-2$

7. The perimeter of a square is 92 feet. Find the area of the square.

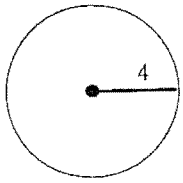
8. If the spinner is spun twice, what is the probability that the arrow will stop on a consonant both times?



9. Find the volume of the right triangular prism. Dimensions are in meters.



10. Find the area of this circle. Use 3.14 for π. Dimensions are in centimeters.

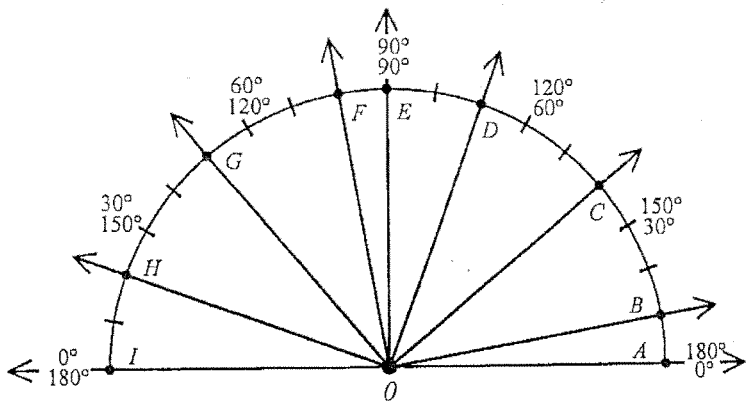


11. The price of the ski jacket was $81.00. The tax rate was 7%.
(a) What was the tax on the ski jacket?
(b) What was the total price of the ski jacket including tax?

12. How much money is 50% of $1400?

SHOW YOUR WORK Name: _____

13.



Refer to the figure above to determine the measure of $\angle AOD$.

14. Multiply. Express the product in scientific notation. $\left(2\times10^{6}\right)\left(9\times10^{-2}\right)$

Solve:

15. $0.5s+1.8=2.6$

16. $1\frac{3}{7}k-14=56$

Simplify:

17. $4^{4}-\sqrt{900}+3^{3}$

18.
$$\begin{array}{r} 11 \text{ in.} \\ +\ 8 \text{ yd } 1 \text{ ft } 3 \text{ in.} \\ \hline \end{array}$$

19. $8x+2(x+3)$

20. $-3(1-5)-4(-4)(-2)+\dfrac{(-3)(-8)}{2}$

Answer Key
WEEK ONE

Key

[1] 1899

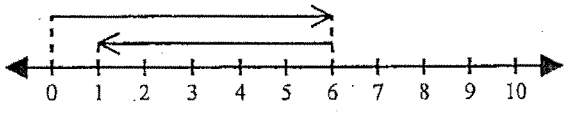
[2] 120

[3] 12.5%

[4] 446

[5] 30,870,430

[6] $(2\times5)\times7=2\times(5\times7)$

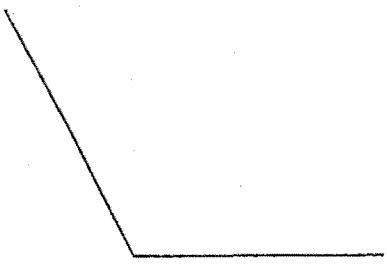
[7] 

[8] (a) side AB (b) 406 mm^2

[9] $2\frac{2}{5}$

[10] $\frac{41}{4}$

[11] (a) 20 (b) 14

[12] 

[13] 8674

[14] 21

[15] $1\frac{7}{8}$

[16] $1\frac{2}{9}$

[17] $\frac{2}{13}$

[18] $\frac{1}{16}$

[19] 13

[20] -0.3

Answer Key
WEEK TWO

Key

[1] 77 in.

[2] $3.84

[3] 2744

[4] $81\ m^2$

[5] 40

[6] 9 in.

[7] $\frac{50}{20}+\frac{8}{20}=2\frac{9}{10}$

[8] (a) 79,000 (b) 78,700

[9] 30

[10] $\frac{2}{5}$

[11] $\frac{3}{12}=\frac{3}{12}$

[12] 10

[13] acute

[14] (a) $5\cdot5\cdot3\cdot3\cdot3\cdot3$ (b) 45

[15] 37

[16] 2139

[17] 4086

[18] $\frac{121}{55}+\frac{25}{55}=2\frac{36}{55}$

[19] $\frac{35}{66}$

[20] $4\frac{7}{8}$

Answer Key
WEEK THREE

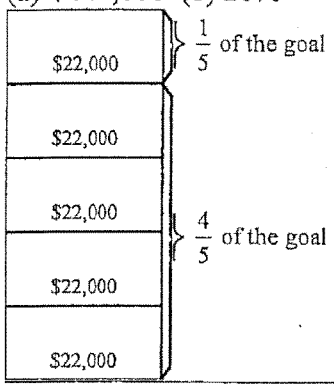
Key

[1] $\frac{5}{8}$

[2] (a) 304 sec (b) 76 sec

[3] \$0.50

[4] (a) \$110,000 (b) 20%



[5] 24 ft

[6] 26 cm^2

[7] 32.02 mm

[8] 3.3 cm

[9] 0.397

[10] 92°

[11] 6.9

[12] (a) 91.59 (b) $91\frac{59}{100}$

[13] 480 m^2

[14] 7.29

[15] 0.71

[16] $3\frac{6}{7}$

[17] $6\frac{2}{9}$

[18] $6\frac{3}{8}$

[19] 24

[20] 5.57

Answer Key
WEEK FOUR

Key

[1] (a) \$4.15 (b) \$87.15

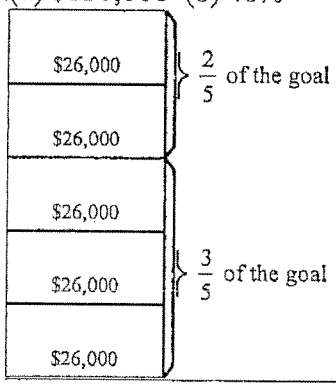
[2] \$0.50

[3] 1 to 2

[4] \$98.55

[5] 17.042

[6] (a) \$130,000 (b) 40%



[7] 15 cm^2

[8] $\frac{11}{200}$

[9] $0.\overline{1407}$

[10] $2\frac{3}{4}$

[11] 100 $in.^2$

[12] 4

[13] 0.91

[14] 11.869

[15] 45

[16] 18 hr 36 min 29 sec

[17] $\frac{13}{20}$

[18] $2\frac{5}{8}$

[19] 5,420,000,000

[20] 150

Answer Key
WEEK FIVE

Key

[1] \$0.58

[2] $2\frac{5}{8}$

[3] 55.2 sec

[4] $2\frac{2}{3}$ mph

[5] 20

[6] (a) $\frac{5}{9}$ (b) $\frac{4}{5}$

[7] (a) 7.64×10^{-5}
(b) 0.0000288

[8] quadrilateral

[9] 8280 ft

[10]

Fraction	Decimal	Percent
$\frac{9}{10}$	0.9	90%
$\frac{9}{40}$	0.225	22.5%

[11] 36 ft

[12] 30 m^2

[13] 30

[14] 23.61

[15] 5

[16] 253

[17] 12 yd 1 ft 9 in.

[18] $\frac{20}{23}$

[19] $\frac{11}{50}$

[20] 0.61

Answer Key
WEEK SIX

Key

[1] 34 km/hr

[2] 62

[3] 352 in.

[4] (a) \$2.67 (b) \$24.03

[5] 15.45

[6] (a) \$80 (b) 70%

[7] 6

[8] (a) 50.24 in. (b) 96π m

[9] 1.9×10^{10}

[10] (a) An isosceles triangle is a triangle that has at least two sides of equal length.
(b) A right triangle is a triangle that contains a right angle.

[11] equilateral triangle

[12] 150

[13] \$1500

[14]

Fraction	Decimal	Percent
$\frac{9}{10}$	0.9	90%
$\frac{1}{40}$	0.025	2.5%

[15] 5040 ft

[16] 24

[17] 9

[18] 10.752

[19] -2

[20] $\frac{9}{49}$

Answer Key
WEEK SEVEN

Key

[1] $6.10 per hour

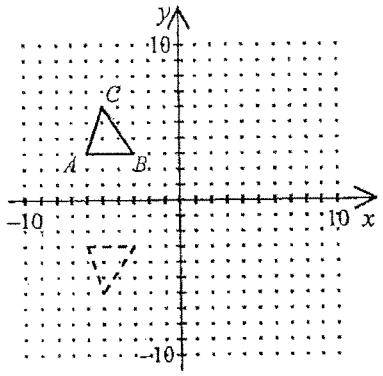
[2] 117

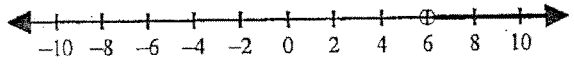
[3] =

[4] 160

[5] 15 gal

[6] 352 in.

[7] 

[8] 

[9] 140

[10] (a) 2
(b) −16
(c) 2
(d) −3

[11]

Fraction	Decimal	Percent
$\frac{27}{50}$	0.54	54%
$\frac{3}{8}$	0.375	37.5%

[12] 154 in.^{2}

[13] 75

[14] 10%

[15] 8

[16] 63

[17] $\frac{177}{644}$

[18] 18

[19] $11\frac{7}{8}$

[20] −10

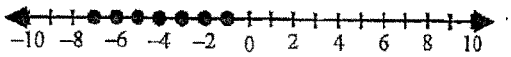
Week 8 Answers

[1] 25

[2] 576 yd^3

[3] 0.400

[4] 9 yd^2

[5] 

[6] 72°

[7] (a) \$70 (b) 70%

[8] (a) 66° (b) 51°

[9] 3

[10] 308 in.

[11] 176 mm^2

[12] <

[13]

Fraction	Decimal	Percent
$\frac{19}{20}$	0.95	95%

[14] 10%

[15] 3500

[16] 2.8×10^3

[17] 10

[18] 36

[19] $-24x^3y^2$

[20] −4

Answer Key
WEEK NINE

Key

[1] 90

[2] $\frac{9}{2}$

[3] \$76.00

[4] $\frac{1}{4}$

[5] 35¢ per pound

[6] 20%

[7] 2,000,000 cm^2

[8] -39

[9] 150 m^3

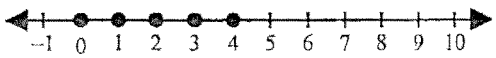
[10]

Fraction	Decimal	Percent
$\frac{12}{25}$	0.48	48%
$\frac{2}{5}$	0.4	40%

[11] (a) \$5.88 (b) \$103.88

[12] 2.8×10^{-1}

[13]



[14] 48

[15] 4.8

[16] 378

[17] $-168x^8y^4$

[18] $\frac{11}{12}$

[19] $5cq - 5c$

[20] -31

Answer Key
WEEK TEN

Key

[1] 86.5

[2] 60¢ per pound

[3] 20%

[4] 25,000 mm^2

[5] 9

[6] $6\frac{1}{2}$

[7] 529 ft^2

[8] $\frac{1}{9}$

[9] 108 m^3

[10] 50.24 cm^2

[11] (a) \$5.67 (b) \$86.67

[12] \$700

[13] 70°

[14] 1.8×10^5

[15] 1.6

[16] 49

[17] 253

[18] 8 yd 2 ft 2 in.

[19] $10x + 6$

[20] -8

Name _____

Summer Math Grade _____ Week _____

1.	**2.**
3.	**4.**
5.	**6.**
7.	**8.**
9.	**10.**

11.	12.
13.	14.
15.	16.
17.	18.
19.	20.