Reflection Sheet

Name: _____ Date: _____ Week #:_____

Assignments	Grade	Comments
Parent Signature		Please sign weekly

Date	Class work	Homework (must write in planner as well)
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		

****Students must complete their homework daily, 100%; the consequence = silent lunch daily****

Parent Signature: _____

Essential Questions	Answers
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

Ms. Alford- tlalford@wsfcs.k12.nc.us Mrs. Reyes- vdreyes@wsfcs.k12.nc.us Mrs. Shore- jlshore@wsfcs.k12.nc.us

Name: _____ Date: _____

"Warm-up Q2 W2"

Monday Warm-up A building cast a shadow of 30m long. The distance from the top of the building is 60 m. How high is the building?	Show your work.
Tuesday Warm-up **No School**	Show your work.
Wednesday Warm-up A can has a height of 13 cm and a diameter of 7 cm. What is the approximate volume of the can rounded to the nearest hundred?	Show your work.
Thursday Warm-up The human ear grows at about 8.78×10^{-3} inches a year. How much larger does the human ear grow in a month than a day? A. 100 times B. 87 times C. 30.4 times D. 0.033 times	Show your work.

2-8 Practice: Word Problems

Powers and Exponents

Classwork

1. SPORTS In the first round of a local tennis tournament there are 2^5 matches. Find the number of matches.	**2. GEOMETRY** The volume of a box can be found by multiplying the length, width, and height of the box. If the length, width, and height of the box are all 5 inches, write the volume of the box using an exponent.
3. MONEY An apartment complex has 3 buildings. Each building has 3 apartments. There are 3 people living in each apartment, and each person pays 3 dollars per month for pool maintenance. The expression 3^4 denotes the amount paid each month for pool maintenance. Find this amount.	**4. ACTIVISM** A petition drive is being held in 10 cities. In each city, 10 people have collected 10 signatures each. The expression 10^3 denotes the number of signatures that have been collected altogether. Find this number.
5. MEASUREMENT There are 10^6 millimeters in a kilometer. Write the number of millimeters in a kilometer.	**6. NATURE** Suppose a certain forest fire doubles in size every 12 hours. If the initial size of the fire was 1 acre, how many acres will the fire cover in 2 days?
7. BANKING Suppose that a dollar placed into an account triples every 12 years. How much will be in the account after 60 years?	**8. BIOLOGY** Suppose a bacterium splits into two bacteria every 15 minutes. How many bacteria will there be in 3 hours?

Classwork

NAME _____ DATE _____ PERIOD ____

3-4 Practice: Word Problems

The Pythagorean Theorem

Classwork

1. ART What is the length of a diagonal of a rectangular picture whose sides are 12 inches by 17 inches? Round to the nearest tenth of an inch.	**2. GARDENING** Ross has a rectangular garden in his back yard. He measures one side of the garden as 22 feet and the diagonal as 33 feet. What is the length of the other side of his garden? Round to the nearest tenth of a foot.
3. TRAVEL Troy drove 8 miles due east and then 5 miles due north. How far is Troy from his starting point? Round the answer to the nearest tenth of a mile.	**4. GEOMETRY** What is the perimeter of a right triangle if the hypotenuse is 15 centimeters and one of the legs is 9 centimeters?
5. ART Anna is building a rectangular picture frame. If the sides of the frame are 20 inches by 30 inches, what should the diagonal measure? Round to the nearest tenth of an inch.	**6. CONSTRUCTION** A 20-foot ladder leaning against a wall is used to reach a window that is 17 feet above the ground. How far from the wall is the bottom of the ladder? Round to the nearest tenth of a foot.
7. CONSTRUCTION A door frame is 80 inches tall and 36 inches wide. What is the length of a diagonal of the door frame? Round to the nearest tenth of an inch.	**8. TRAVEL** Tina measures the distances between three cities on a map. The distances between the three cities are 45 miles, 56 miles, and 72 miles. Do the positions of the three cities form a right triangle?

Stapled Work

3-5

Practice: Word Problems

Using The Pythagorean Theorem

Classwork

1. RECREATION A pool table is 8 feet long and 4 feet wide. How far is it from one corner pocket to the diagonally opposite corner pocket? Round to the nearest tenth.	**2. TRIATHLON** The course for a local triathlon has the shape of a right triangle. The legs of the triangle consist of a 4-mile swim and a 10-mile run. The hypotenuse of the triangle is the biking portion of the event. How far is the biking part of the triathlon? Round to the nearest tenth if necessary.
3. LADDER A ladder 17 feet long is leaning against a wall. The bottom of the ladder is 8 feet from the base of the wall. How far up the wall is the top of the ladder? Round to the nearest tenth if necessary.	**4. TRAVEL** Tara drives due north for 22 miles then east for 11 miles. How far is Tara from her starting point? Round to the nearest tenth if necessary.
5. FLAGPOLE A wire 30 feet long is stretched from the top of a flagpole to the ground at a point 15 feet from the base of the pole. How high is the flagpole? Round to the nearest tenth if necessary.	**6. ENTERTAINMENT** Isaac's television is 25 inches wide and 18 inches high. What is the diagonal size of Isaac's television? Round to the nearest tenth if necessary.

NAME _____ DATE _____ PERIOD _____

3-6

Practice: Word Problems

Distance on the Coordinate Plane

Classwork

1. ARCHAEOLOGY An archaeologist at a dig sets up a coordinate system using string. Two similar artifacts are found—one at position (1, 4) and the other at (5, 2). How far apart were the two artifacts? Round to the nearest tenth of a unit if necessary.	**2. GARDENING** Vega set up a coordinate system with units of feet to locate the position of the vegetables she planted in her garden. She has a tomato plant at (1, 3) and a pepper plant at (5, 6). How far apart are the two plants? Round to the nearest tenth if necessary.
3. CHESS April is an avid chess player. She sets up a coordinate system on her chess board so she can record the position of the pieces during a game. In a recent game, April noted that her king was at (4, 2) at the same time that her opponent's king was at (7, 8). How far apart were the two kings? Round to the nearest tenth of a unit if necessary.	**4. MAPPING** Cory makes a map of his favorite park, using a coordinate system with units of yards. The old oak tree is at position (4, 8) and the granite boulder is at position (−3, 7). How far apart are the old oak tree and the granite boulder? Round to the nearest tenth if necessary.
5. TREASURE HUNTING Taro uses a coordinate system with units of feet to keep track of the locations of any objects he finds with his metal detector. One lucky day he found a ring at (5, 7) and an old coin at (10, 19). How far apart were the ring and coin before Taro found them? Round to the nearest tenth if necessary.	**6. GEOMETRY** The coordinates of points A and B are $(-7, 5)$ and $(4, -3)$, respectively. What is the distance between the points, rounded to the nearest tenth?
7. GEOMETRY The coordinates of points A, B, and C are $(5, 4)$, $(-2, 1)$, and $(4, -4)$, respectively. Which point, B or C, is closer to point A?	**8. THEME PARK** Tom is looking at a map of the theme park. The map is laid out in a coordinate system. Tom is at (2, 3). The roller coaster is at (7, 8), and the water ride is at (9, 1). Is Tom closer to the roller coaster or the water ride?

Pre-Algebra Builder #4

Name_____

Integers

(-3)(-5)(2) = _____

(-4)(-2)(3) = _____

(50)(-0.5) = _____

2 ÷ (-50) = _____

-95 ÷ (-6) = _____

9 ÷ (-21) = _____

Scientific Notation

1,250,000 = _____ X 10^{----}

4.3×10^5 = _____

33,005,000,000= _____ X 10^{----}

Mental Math

52.003 x 100 = _____

0.1 ÷ 100 = _____

0.30 x 1,000 = _____

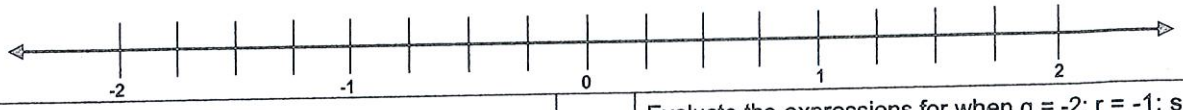
40% of 50 = _____

40% of 60 = _____

40% of 70 = _____

Number Lines

Place the numbers on the number line. $\sqrt{4}$, $|-\frac{1}{2}|$, -1, -1.5, 1.75



Computation

3.92 x 2.2 =

$\frac{3}{7} + \frac{3}{5} =$

Expressions

Evaluate the expressions for when q = -2; r = -1; s = 3.

q + rs

r + sq

Exponents & Square Roots

5^2

__ x __

____

6^2

__ x __

____

3^3

__ x __ x __

__ x __

____

2^3

__ x __ x __

__ x __

____

1^3

__ x __ x __

__ x __

____

Vocabulary

WORD BANK

Classifications of Numbers

Ordinal, Real, Whole, Integers, Irrational, Counting, Rational

Natural Numbers, their opposites, and "0"_____

Any natural number and "0" _____

Number that cannot be written as a ratio of two integers_____

Number written as quotient of two integers where denominator is not "0"_____

Equivalents

$\frac{1}{2}$ = _____ = _____;

$\frac{1}{3}$ = _____ = _____;

$\frac{2}{3}$ = _____ = _____;

$\frac{1}{4}$ = _____ = _____;

$\frac{2}{4}$ = _____ = _____;

$\frac{3}{4}$ = _____ = _____;

Pre-Algebra Builder #3

Name _____

Integers

(-1)(-2)(-4) = _____

(-3)(2)(3) = _____

(-150)(-0.5) = _____

9 ÷ (-5) = _____

-9 ÷ (-1) = _____

4 ÷ (-2) = _____

Scientific Notation

16,000,000 = _____ X 10----

5.23987 x 10^3 = _____

45,600 = _____ X 10----

Mental Math

52.3 x 100 = _____

1 ÷ 10 = _____

0.3 x 1,000 = _____

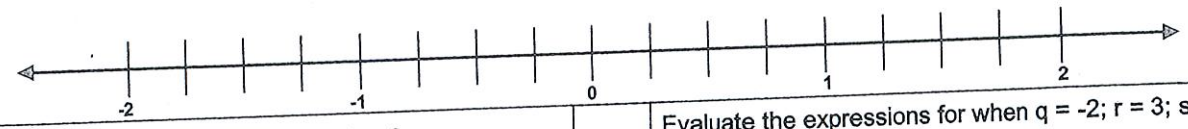
30% of 20 = _____

30% of 30 = _____

30% of 40 = _____

Number Lines

Place the numbers on the number line. $\sqrt{1}$, -½, 1¾, 1.25, -2.00



Computation

2.61 x 2.3 =

$\frac{4}{5} + \frac{8}{9} =$

Expressions

Evaluate the expressions for when q = -2; r = 3; s = 1.

q + rs

r + sq

Exponents & Square Roots

4^2	5^2	2^3	3^3	1^3
__ x __	__ x __	__ x __ x __	__ x __ x __	__ x __ x __
____	____	__ x __	__ x __	__ x __
		____	____	____

Vocabulary

WORD BANK

Classifications of Numbers

Ordinal, Real, Whole, Integers, Irrational, Counting, Rational

Number written as quotient of two integers where denominator is not "0" _____

Any natural number and "0" _____

Natural Numbers, their opposites, and "0" _____

A number that cannot be written as a ratio of two integers _____

Equivalents

$\frac{1}{2}$ = _____ = _____;

$\frac{1}{3}$ = _____ = _____;

$\frac{2}{3}$ = _____ = _____;

$\frac{1}{4}$ = _____ = _____;

$\frac{2}{4}$ = _____ = _____;

$\frac{3}{4}$ = _____ = _____;

Monday HW: Make Flashcards for these words and Study

Point- has no size, only location
Plane-a flat surface that extends indefinitely in 4 directions
Line- continues without end in opposite directions
Line segments- a part of a line; has 2 endpoints
Ray- has one endpoint and continues without end in the opposite directions
Angle- has 2 rays that share the same endpoint
Vertex- is the point in which 2 rays meet
Complementary angle- 2 angles whose sum measures 90 degrees
Supplementary angles 2 angles whose sum measures 180 degrees
Vertical angle- angles that are diagonal from each other and are congruent
Skew lines- lines that are on different planes and never intersect
Parallel lines- lines that are on the same plane but never intersect
Intersecting lines- lines that cross each other
Perpendicular lines- lines that intersect to form 4 right angles
Adjacent angles- angles that are side by side
Corresponding angles- angles that are in similar positions and are congruent
Transversal line- a line that cuts a pair of parallel lines
Interior angles- angles that are on the inside of an object or on the inside of parallel lines cut by a transversal
Exterior angles- angles that are on the outside of an object or on the outside of parallel lines cut by a transversal
Alternate interior angles- angles that are on the inside of parallel lines cut by a transversal and on opposite ends
Alternate exterior angles- angles that are on the outside of parallel lines cut by a transversal and on opposite ends
Acute angle- angle less that are less than 90 degrees
Obtuse angle- angle greater than 90 degree but less than 180 degrees
Right angle- angle exactly 90 degrees
Acute triangle- all angles are less that 90 degrees
Obtuse triangle- a triangle with one obtuse angle
Right triangle- a triangle with one right angle
Isosceles triangle- two of the sides are congruent
Scalene triangle- none of the sides are congruent
Equilateral triangle- all of the sides are congruent

Perimeter- is the distance around an object
Circumference- is the distance around a circle
Area- the number of square units
Base (B)- the area of the base (bottom part of the object)
Base length (b)- the length of the bottom part of the object
Center- the middle point of a circle; it is equal distance to the points around the circle
Diameter- a line that goes through the center of a circle
Radius- a line that is half the length of the diameter
Chord-a line that goes touches two ends of the circle

Surface Area- is the total area of all faces (faces: flat surfaces)
Pi- symbol: 3.14 decimal(rounded): fraction:
Volume: the number of cubic units within a 3-D solid

Formulas

Circumference:	Area Square:
Area Rectangle:	Area Triangle:
Area Parallelogram:	Area Circle:
Area Trapezoid:	Volume Cone:
Volume Rectangular Prism:	Volume Cylinder:
Volume Cone:	Volume Triangular Prism:
Volume (Rectangular) Pyramid:	Simple Interest:
Pythagorean Theorem:	Percent of Change:
Slope Formula:	Slope Formula:
Surface Area Rectangular Prism:	Surface Area Cylinder:
Percent Proportion:	Slope Intercept Form:
Point Slope Form:	Standard Form: