Name: _____

Make a path by adding up the numbers. Do not visit a circle more than once. The first one is done.

START 9   4   3   7

7   4   1   2

6   9   8   4

4   1   2   FINISH SUM: 31

$9 + \underline{7} + \underline{4} + \underline{1} + \underline{8} + \underline{2} = 31$

START 15   15   9   6

1   5   3   13

13   13   14   FINISH SUM: 38

$15 + \underline{1} + \underline{} + \underline{} + \underline{} = 38$

START 9   7   8   6

7   8   6   8

6   8   9   8

8   7   7   FINISH SUM: 89

Did you find a path? Write the equation.

START 5   7   8   2

9   6   1   7

4   6   2   9

6   4   3   FINISH SUM: 31

$5 + \underline{} + \underline{} + \underline{} + \underline{} + \underline{} = 31$

Name: _____

Make change. You can use $20, $10, $5, $1, 25¢, 10¢, 5¢, or 1¢.

Make $47.14 any way you want!

Make $37.53 any way you want!

Make $54.48 any way you want!

Make $15.53 any way you want!

Name: _____

Hannah is grinding a part for a spacecraft to be sent on a mission to Mars. The part must be very precise. Right now it is oversized by 2.32×10^{-3} inches. If she makes two passes with the grinding machine and takes off half the required amount each time, how much will be ground off on each pass?

Whoozits are weird. They can be broken into any fractional part desired and then later be reassembled without harm. Sometimes even fractional parts of whoozits are shipped around the country to be assembled with other fractional parts to make new whole whoozits. SLUGCO had 26.639 whoozits they needed to ship to Timbuktu. Someone decided the easiest way to do it would be to put the same amount of whoozits in each box. If they had seventeen boxes, how many whoozits would go in each box?

Gavin took a big bowl from the kitchen to see what kind of fun party mix he could create.

He added $\frac{1}{7}$ cup of raisins, $2\frac{1}{2}$ cups of Goldfish crackers, and $2\frac{1}{2}$ cups of Cheerios.

How much food is now in the bowl?

Circle the least amount:

44%

0.22

$\frac{6}{25}$

What is the remainder of 52 divided by 8?

Circle the percentage that is closest to 29 out of 54:

15%

96%

73%

word root **equi** can mean **equal or fair**   **equivocate**

Name: _____

Mary carefully monitored the temperature in a reaction flask as it was slowly heated in a heating blanket. The temperature rose 20 degrees in 5 minutes. What was the rate of temperature rise in degrees per minute?

April is concentrating a sample by distillation. She started with 110 ml of a solution that was about 0.07% inorganic salts. After several hours of distillation, the amount of inorganics salts hasn't changed, but the volume has decreased to 44 ml. What percent of the solution after distillation is inorganic salts? Round your answer to the nearest hundredth of a percent.

If twenty and six hundredths percent of the volume of gas in a storage tank is oxygen, then all the other gases in the tank make up what percent of the volume of the gases in the tank?

If venom A is four times as potent as venom B, and venom C is 3.3 times as potent as venom B, how much more potent is venom C compared to venom A?

Justin wants to ride the Ultramonster roller coaster. He observes the sign at the entrance that says riders must be at least forty-six inches tall to ride the roller coaster. Since Justin was at the doctor's office yesterday he remembers they said he was four and a half feet tall. Is he tall enough to ride the Ultramonster?

Two objects are suspended 4 meters in the air by a string. One object has a mass of 3 kg and the other has a mass of 3.84 kg. What is the difference in potential energy of the two objects expressed as a percent? Round your answer to the nearest hundredth of a percent if needed.

Name: _____

Alex is keeping track of the number of grams of fat he eats. He wants to get in shape to run the 220-yard dash. On Tuesday he ate 10 grams of fat at breakfast, 12 grams of fat at lunch, and 7 grams of fat at dinner. How many milligrams of fat did he eat?

Peter took a survey of all the students at Marble Elementary School. One-fourth of them don't like pretzels at all! If there are 452 students in the school, how many of them don't like pretzels at all?

Jacob spent $11.26 for a cheese pizza and $1.45 for each of the three toppings. How much did he spend in all?

What Words? Your Words!
Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Make a Word	Sum
1 2 4 6 8 14 K I T T E N ▢	21
1 2 6 L E ▢ ▢	▢
1 2 4 8 12 S H E ▢ ▢ ▢	▢
1 2 4 8 C H ▢ ▢	▢
1 2 4 8 14 W E ▢ ▢ ▢	▢

Make a Word	Sum
1 2 4 6 8 12 16 ▢ N ▢ ▢ ▢ ▢ ▢	▢
1 2 4 8 12 P R O ▢ ▢ ▢	▢
1 2 4 6 10 16 L E ▢ ▢ ▢ ▢	▢
1 2 4 6 8 14 ▢ A ▢ ▢ ▢	▢
1 2 4 6 10 14 C I ▢ ▢ ▢ ▢	▢

word root **cent** can mean **hundred**   centennial

Name: _____

Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

Finish the line:

Finish the line:

8 x 3 =

How many yards are in 18 feet?

_____ yards

30 ÷ 3 = _____

Jenna rolls two dice. What is the chance of her rolling a 1 on one die and a 2 on the other die?

_____

Hannah rolls a die. What is the chance of her rolling a 5?

_____

$$\begin{array}{r} 9\ 7 \\ -\ 3\ 5 \\ \hline \end{array}$$

2,974 + 7,139 = _____

What number is halfway between 18 and 31?

$$\begin{array}{r} 2\ 1 \\ +\ 4\ 2 \\ \hline \end{array}$$

Name: _____

11 x 8 = _____

What time is 16 hours after 3:00 p.m.?

_____

12 ÷ 2 = _____

24 ÷ 3 =

```
  2 8 5
+ 3 8 1
```

7 x 4 = _____

15 cm = _____ mm

A bike originally priced at $80 is marked down by 40%. What is the sale price?

27 ÷ 9 =

```
  4 0 9
- 3 8 4
```
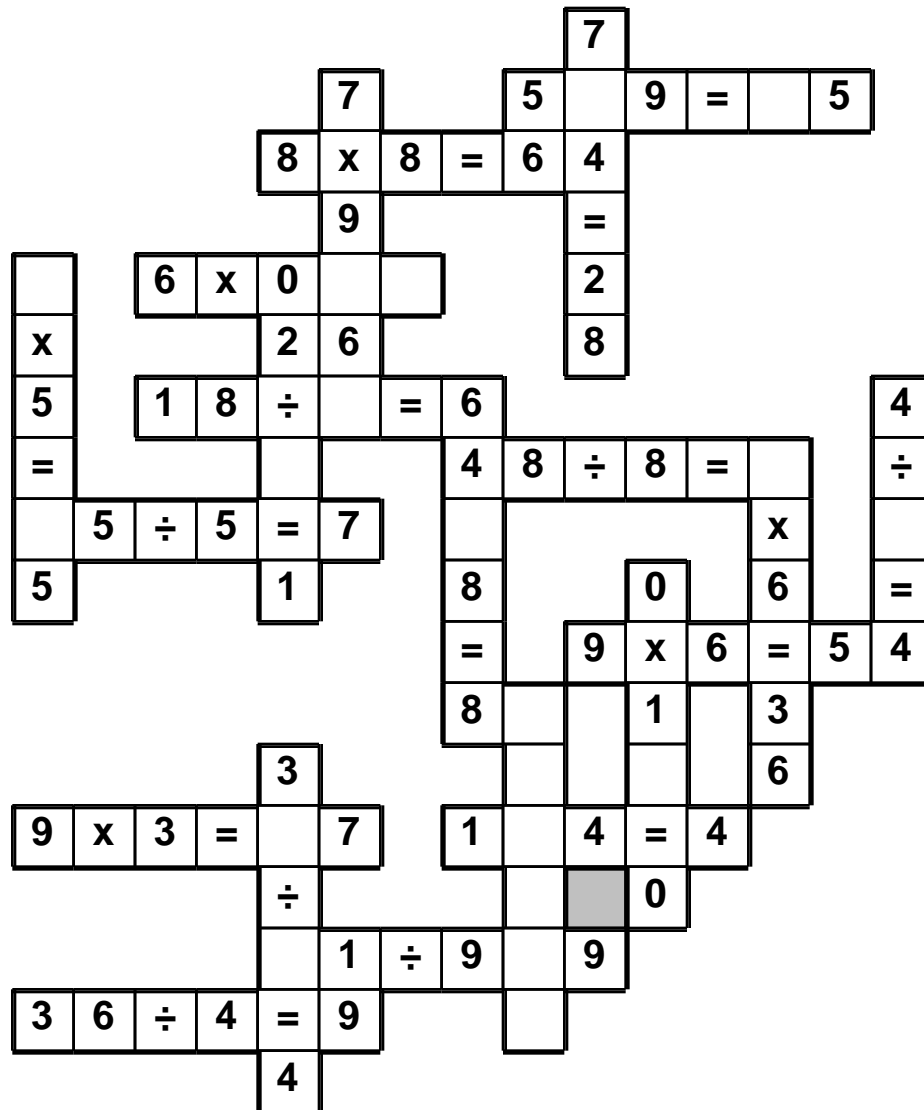
95,589 - 94,865 = _____

5 x 4 =

Sarah took three numbers greater than 1 and multiplied them. One number was four and the other number was seventeen. Of course, she forgot the last number, but she remembered the product was 544. Is this possible?

563 + 451 = _____

768 - 387 = _____

10 x 4 = _____

Write the numbers 50 to 75 on a sheet of paper.
How many of these numbers are divisible by 9?

_____

1 lb = 16 oz

10 lb = _____ oz

word root **mitt** can mean **send let go**   remittance

Name: _____

x • 4 • 7 • = • 0 • 3 • 2 • 6 • 3 • ÷ • 1 • 1 • 1 • 0 • 2 • x • 0
8 • = • 0

Use the pieces above to help you fill in the runaway math puzzle.

				7				
	7		5		9	=		5
8	x	8	=	6	4

| 9 |
| = |

| 6 | x | 0 |

| 2 | 8 |

| x | 2 | 6 |

5	1	8	÷		=	6					4
=				4	8	÷	8	=			÷
	5	÷	5	=	7				x
5			1	8		0		6	=

9 x 6 = 5 4

| 8 | | 1 | 3 |

| 3 | 6 |

9 x 3 = 7   1   4 = 4

÷   0

1 ÷ 9   9

3 6 ÷ 4 = 9

4

6 ÷ 3 = _____

77 ÷ 7 =

32 ÷ 8 = _____

66 ÷ 11 = _____

32,162 - 21,922 = _____

Write an equation to represent this:

The product of four and twelve is forty-eight.
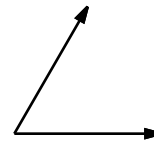
_____

Name: _____
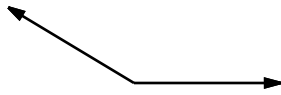
What kind of angle is this?

Sketch 2 lines $\overleftrightarrow{GH}$ and $\overleftrightarrow{WX}$ that are intersecting.
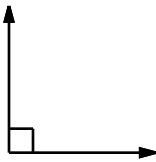
What kind of angle is this?

What kind of angle is this?

Sketch a right angle named ∠EFG.

Sketch an acute angle named ∠BCD.

Sketch an obtuse angle named ∠CDE.

Sketch a right angle named ∠DEF.

What kind of angle has a measure of 180°?

An angle measures 159°. What would you call this angle?

Use a protractor to draw a 145° angle.

Write the angle that is the supplement of 166°.

Write the angle that is the supplement of 107°.

Name: _____

40)1213   42)1371   40)560   12)144

7)420   12)102   10)332   60)600

2)56   27)810   18)216   30)724

142 x 24	38 x 14

Multiply 679 and 7.

In what quadrant would you find the point (11, -12)?

0.4 x 0.2

$\frac{8}{10}$ x $\frac{7}{10}$

Name: _____

Circle the pair of numbers that does not fit. Explain why.

8 and 28.8

13 and 46.8

20 and 72

6 and 21.6

9 and 40.5

Mrs. Hernandez sent an e-mail out to parents asking them to send balloons to class.

Holly brought in $\frac{1}{5}$ as many balloons as Adam. Adam brought in $\frac{1}{4}$ as many balloons as

Rosa. Who brought in the most balloons?

Did you guess Rosa? You would be correct. She brought in 180 balloons! How many

balloons did Holly and Adam bring to class?

Name: _____

Which number has more factors: 17 or 14?

Max was having so much fun making cupcakes for his class. He made $2\frac{3}{6}$ dozen of them!

 But there are only 18 kids in his class. Luckily everyone ate one cupcake except for Megan.
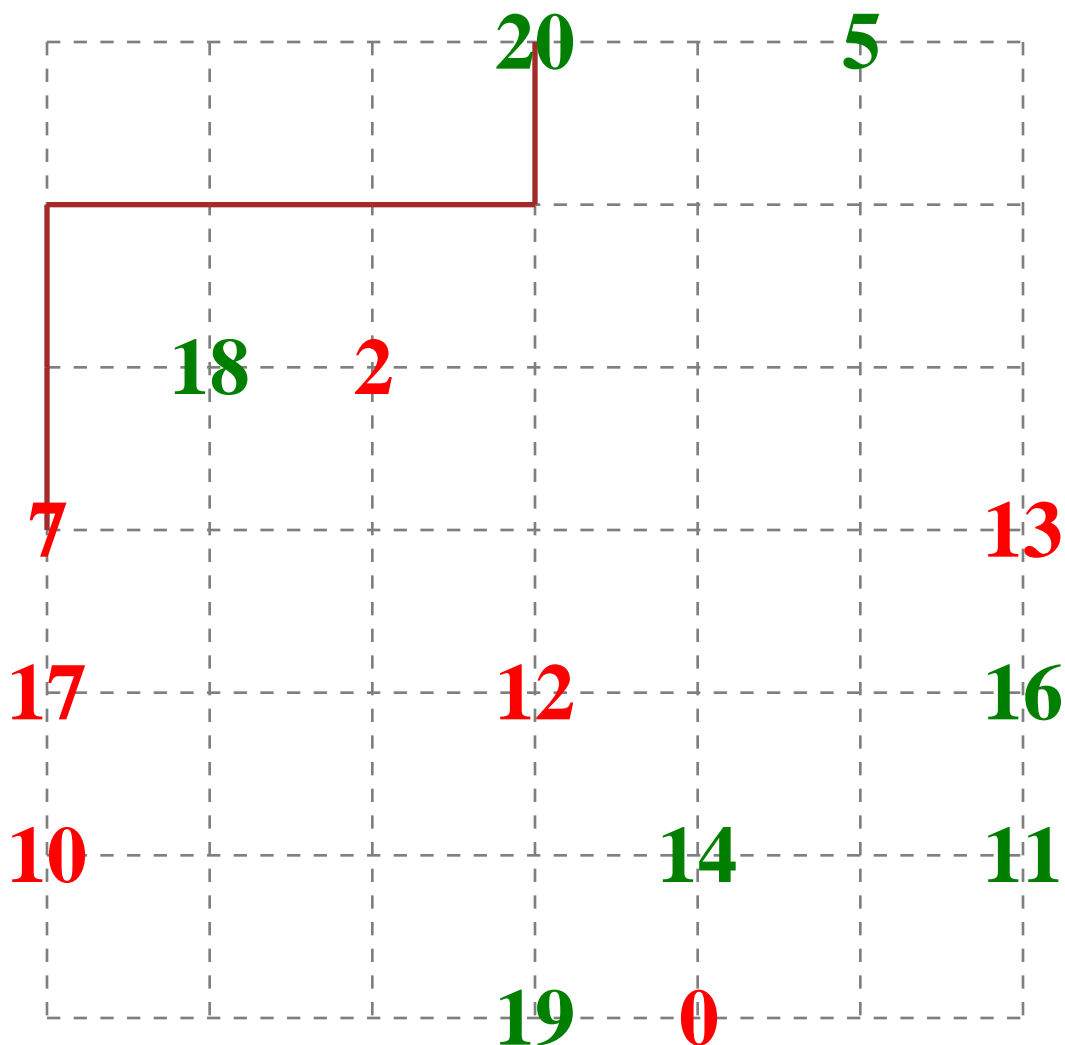
 How many cupcakes are left over?

Name _____

Date _____

Greater and Less Than Number Kissing

Start at a green number and draw a line to any red number that is less than the green number.

Draw a line that connects one number to one other number to kiss. Draw your lines over the trace lines. No lines may cross. Once you draw a line to a number, that number cannot be used again.

One complete line has already been drawn for you.

20   5

18   2

7   13

17   12   16

10   14   11

19   0