

# Math Worksheet #1

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.** *Add, Subtract, Multiply, or Divide, Decimals, Fractions, Mixed Numbers, and Integers. Any problem involving fractions must be in simplest form.*

1)  $52.8 + 0.94$

2)  $12.8 + 5.888$

3)  $12.2 - 0.135$

4)  $400 - 19.7$

5)  $13.9 (4.6)$

6)  $47.13 (35.6)$

7)  $17.6 \div 4$

8)  $1,256.6 \div 0.06$

9)  $3/7 + 3/4$

10)  $2 \frac{2}{3} + 4 \frac{1}{9}$

11)  $2 \frac{1}{12} - 1 \frac{1}{8}$

12)  $7 - 3 \frac{2}{5}$

13)  $3/4 - 1/6$

14)  $1/6 (3/7)$

15)  $3 \frac{1}{6} (5 \frac{4}{5})$

16)  $2/3 \div 3/2$

17)  $3/8 \div 2 \frac{1}{3}$

18)  $-18 + 11$

19)  $-67 + (-18)$

20)  $42 + (-15)$

21)  $19 - (-30)$

22)  $-41 - (18)$

23)  $-84 - (-61)$

24)  $3 (-38)$

25)  $-12 (-29)$

26)  $-16 (7)$

27)  $-117 \div (-9)$

28)  $215 \div (-5)$

29)  $-624 \div 8$

# Math Worksheet #2

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.** *Follow the Order of Operations rules.....P E M D A S*

1)  $7 \times 6 - 14$

2)  $(32 + 10) - 5 \times 6$

3)  $6(7.5 + 2.1) - 2.3$

4)  $(5^2 + 2) \div 3$

5)  $24 \div 8 - 2$

6)  $4^3 \div (16 - 12) \times 3$

7)  $24 \div 3 \times 2 - 5 + 9$

8)  $(6 + 1)^2 - 12 \times 3$

9)  $7 + (8 - 7 + 2)^3$

10)  $3^2 - 2 \times 3 + 5$

# Math Worksheet #3

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.** *Identify each sequence as arithmetic, geometric, or neither. If it is arithmetic or geometric, identify the pattern/rule. Write the next three terms of all sequences.*

1) 5, 9, 13, 17, ... \_\_\_\_\_

2) 10, 15, 25, 40, ... \_\_\_\_\_

3) 1600, 800, 400, 200, ... \_\_\_\_\_

4) 0.3, 0.4, 0.5, 0.6, ... \_\_\_\_\_

5) 1, 2, 5, 10, 17, ... \_\_\_\_\_

6) 4, 6.5, 9, 11.5, 14, ... \_\_\_\_\_

7) 5, -15, 45, -135, 405, ... \_\_\_\_\_

8) 1, -2, -5, -8, -11, ... \_\_\_\_\_

# Math Worksheet #4

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.** Complete the chart below by converting fractions to decimals & percents, decimals to fractions & percents, and percents to fractions & decimals. Use bar notation for any decimal that is repeating.

<b>FRACTION</b>	<b>DECIMAL</b>	<b>PERCENT</b>
<b>1/8</b>	1)	2)
3)	4)	<b>1 %</b>
5)	<b>0.36</b>	6)
7)	8)	<b>55%</b>
<b>1/20</b>	9)	10)
11)	12)	<b>140%</b>
13)	<b>2.5</b>	14)
<b>3/5</b>	15)	16)
17)	<b>0.08</b>	18)
<b>5/9</b>	19)	20)

# Math Worksheet #5

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.** Solve each equation using inverse operations. Check your answer by replacing it into the original equation.

1)  $14 + m = 24$

2)  $y + 3.4 = 18$

3)  $r + 6.7 = 1.2$

4)  $-4 + b = -5$

5)  $s - 2 = -6$

6)  $m + (-2) = 6$

7)  $v - 42 = -42$

8)  $z - 10 = -8$

9)  $-20r = 20$

10)  $325 = 25t$

11)  $3m = -15$

12)  $8.34 = 2r$

13)  $y/12 = -6$

14)  $c/ -4 = 10$

15)  $r/ -7 = -56$

16)  $t/ 12 = 11$

17)  $6y + 3 = 15$

18)  $3p + 13 = 7$

19)  $1.1n + 2 = 5.5$

20)  $18 - 7f = 4$

# Math Worksheet #6

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.**

*Draw a tree diagram to show all the possible outcomes for the following situations.*

1. You are choosing between a red, blue, yellow, & white shirt to wear with a pair of shorts or a pair of jeans, and sneakers or flip flops.

2. At a restaurant you may pick one item from each of the following categories.

<i>Entree</i>	<i>Side</i>	<i>Dessert</i>
meatloaf	rice	pie
chicken	potato	cake
fish	salad	
steak		

*State whether the following are permutations, (order matters) or combinations (order doesn't matter) then solve how many outcomes are possible.*

3. How many ways can five runners finish a race?

4. In how many ways can you ride three of six roller coasters if you don't care what order you ride them?

5. In how many ways can 4 pictures out of seven, be hung on a wall ?

6. How many ways can three students out of nine finish in a speech competition?

# Math Worksheet #7

Name \_\_\_\_\_

**All work must be shown to receive credit. Staple an additional sheet if necessary.**

*A bag of marbles has 4 purple, 2 white, 6 green, 3 yellow, and 5 red. Answer the following ratio and probability questions as fractions in simplest form.*

1. the ratio of purple to green marbles \_\_\_\_\_
2. the ratio of white to red \_\_\_\_\_
3. the ratio purple & white to yellow & red \_\_\_\_\_
4. the probability of pulling a white marble from the bag \_\_\_\_\_
5. the probability of pulling a green or yellow from the bag \_\_\_\_\_
6. the probability of pulling a blue marble from the bag \_\_\_\_\_
7. the probability of pulling a purple marble, not replacing it and then pulling a white marble \_\_\_\_\_
8. the probability of pulling a green marble, putting it back, and then pulling a red marble \_\_\_\_\_

*Solve the following proportions .*

9.  $\frac{u}{72} = \frac{2}{4}$

10.  $\frac{12}{m} = \frac{15}{10}$

11.  $\frac{14}{7} = \frac{8}{s}$

*Determine whether each pair of ratios forms a proportion. Show your work.*

10.  $\frac{100}{8} = \frac{250}{20}$

11.  $\frac{15}{45} = \frac{25}{60}$

12.  $\frac{2}{5} = \frac{5}{8}$