1pg GLO7FC

1) Solve the following proportions:

a) A/ -5 = 49/ -35
b) 8/B = 72/27
c) -12/60 = C/15
d) 21/18 = 7/D

2) Write the ratios of the following:

a) The number of days in the month of January to the number of days in the month of July.

b) The number of inches in 2 ½ feet to the number of feet in 3 yards.

3) Evaluate the problems below:

a) What is 30% of 40?

b) 12 is 10% of what?

c) What percent of 18 is 6?

4) Fill in the chart below

fraction	decimal	percent
1/8		
	0.26	
		130%
4/3		
	-0.11	
		0.1%

5) Solve the following:

a) Find the new cost after a 25% discount has been taken off $44.00

b) Compute the total cost a $32.00 meal plus a 20% tip.

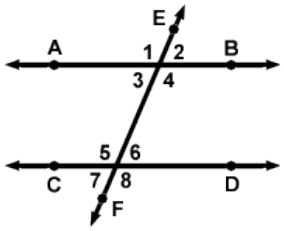
c) Total cost of a $6.00 item after a 5.5% tax is added.

d) Compute the percent of increase on an item that originally sold for $20.00 but now sells for $22.00.

6) Compute:

a) -21 ÷ - 7 =
b) 8 + (-10) + 5 =
c) $(-5)^2$ =
d) 2(5 -9) =
e) (-5) + (8)(-2) =
f) 32 ÷ - 8 =
g) (-4)(-3)(2)(-1) =
h) -6 + (-6) – 6 + (6) =

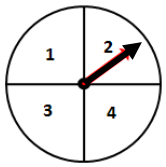
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 6 is 70^0, list the measures of each of the other numbered angles.



8) Using the same graphic above, evaluate the following:

m∠ 2 + m∠ 4 =
m∠ 5 + m∠ 7 =
m∠ 1 + m∠ 4 =
m∠ 1 - m∠ 4 =
m∠ 2 - m∠ 3 =
m∠ 5 + m∠ 6 + m∠ 7 + m∠ 8 =

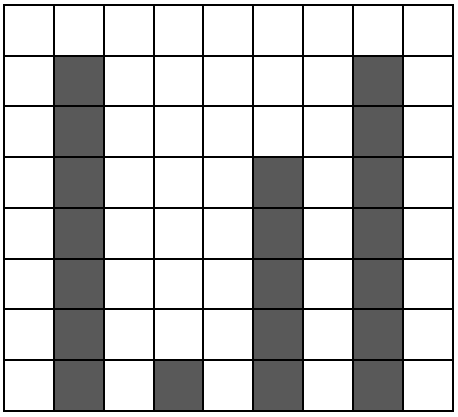
9) Using the spinner shown here, compute the following probabilities:



a) The probability of spinning a "3" =
b) The probability of spinning a number greater than 4 =
c) The probability of spinning an even number on each of your next 3 spins?

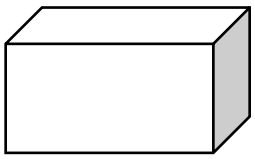
_____
Name

10) One of the shaded squares in the data display below will be chosen at random. What is the probability that the chosen square will come from column B or C?



11) The <u>volume</u> of the rectangular prism below is 54 in^3. Find the height and total surface area.

W = 3 in. L = 6 in.



H = TSA =

12) If X = -2, Y = -3 and Z = 5, evaluate the following expressions:

a) 5X – Y =
b) Y^2 – 5X =
c) -Y(XYZ) =

13) Solve for the variable shown:

a) 5M – 11 = -M + 13

b) 3(2N + 12) = 0

c) 2P + P + 6 + 5P = 46