1pg GLO7FG

1) Solve the following proportions:

a) A/ -4= 22/ -8
b) 7/B = 49/14
c) -12/-60 = C/30
d) 36/60 = 3/D

2) Write the ratios of the following:

a) The number of total days in the months beginning with the letter J to the number of days in the months beginning with the letter M.

b) The number of minutes in a quarter of an hour to the number of hours in a half of a day.

3) Evaluate the problems below:

a) What is 15% of 20?

b) 12 is 25% of what?

c) What percent of 15 is 5?

4) Fill in the chart below

fraction	decimal	percent
1/3		
	0.88	
		400%
7/7		
	-0.1	
		9%

5) Solve the following:

a) Find the new cost after a 25% discount has been taken off $36.00

b) Compute the total cost a $60.00 meal plus a 20% tip.

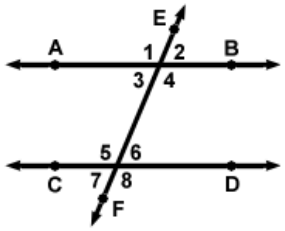
c) Total cost of an $4.00 item after a 7.5% tax is added.

d) Compute the percent of decrease on an item that now sells for $30.00 but originally sold for $40.00.

6) Compute:

a) -24 ÷ 12 =
b) 9 + (-9) + 8 =
c) $(-2)^5$ =
d) 5(2 -10) =
e) (-9) + (-6 -3) =
f) 70 ÷ - 10 =
g) (-4)(-3)(2)(-1) =
h) 8 +(-7 -2) =

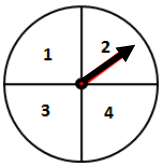
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 4 is 115^0, list the measures of each of the other numbered angles.



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

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

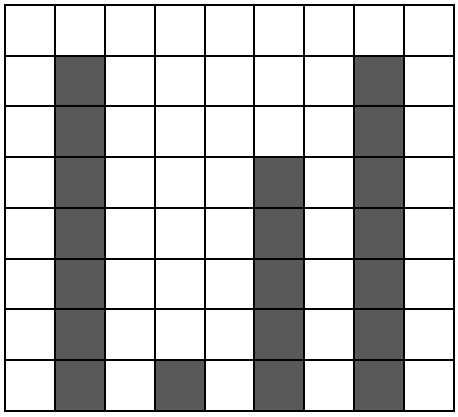
9) Using the spinner shown here, compute the following probabilities:



a) The probability of spinning a number less than 1?
b) The probability of spinning an odd number =
c) The probability of spinning an even number on each of your next 2 spins?

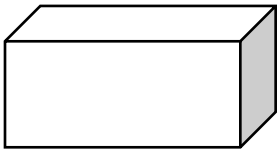
_____
Name

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 A or D?



11) The <u>volume</u> of the rectangular prism below is 36 in^3. Find the length and total surface area.

W = 2 in. H = 2 in.



L = TSA =

12) If X = -1, Y = 2 and Z = 10, evaluate the following expressions:

a) 4X – Y =
b) Y^4 – 3Z =
c) Y(XYZ) =

13) Solve for the variable shown:

a) 5M - 3 = M + 37

b) 2(N + 3) = 28

c) 5P + 8 +2P = 57