1pg GLO7FE

1) Solve the following proportions:

a) A/ -3 = 60/ -36
b) 9/B = 54/30
c) -11/55 = C/15
d) 18/18 = 3/D

2) Write the ratios of the following:

a) The number of days in December to the number of days in July.

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

3) Evaluate the problems below:

a) What is 15% of 60?

b) 11 is 20% of what?

c) What percent of 12 is 6?

4) Fill in the chart below

fraction	decimal	percent
2/6		
	0.14	
		210%
1/4		
	-0.3	
		0.9%

5) Solve the following:

a) Find the new cost after a 25% discount has been taken off $40.00

b) Compute the total cost a $55.00 meal plus a 20% tip.

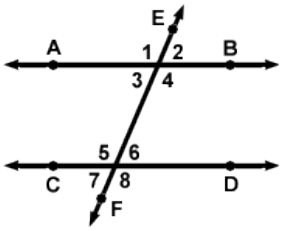
c) Total cost of a $20.00 item after a 3.5% tax is added.

d) Compute the percent of decrease on an item that originally sold for $18.00 but now sells for $12.00.

6) Compute:

a) -36 ÷ - 9 =
b) -4 + (-3) + 5 =
c) $(-3)^4$ =
d) 6(2 -7) =
e) (-5) + (8)(-2) =
f) -77 ÷ -11 =
g) (-4)(-3)(2)(-1) =
h) -6 + (-6) – 6 + (-6) =

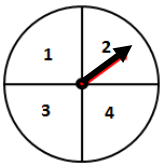
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 1 is 105^0, list the measures of each of the other numbered angles.



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

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

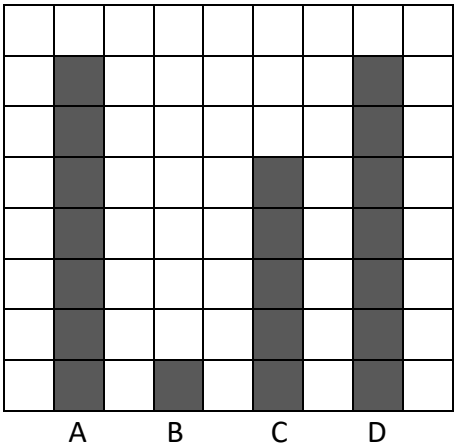
9) Using the spinner shown here, compute the following probabilities:



a) The probability of spinning a "3" =
b) The probability of spinning a number less than 1 =
c) The probability of spinning a "4" on each of your next 3 spins?

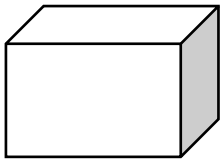
_____
Name

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 D?



11) The <u>volume</u> of the rectangular prism below is 60 in^3. Find the height and total surface area.

W = 3 in. L = 5 in.



H = TSA =

12) If X = 0, Y = 3 and Z = -5, evaluate the following expressions:

a) 4X – Y =
b) Y^3 – 2Z =
c) Y(XYZ) =

13) Solve for the variable shown:

a) 4M – 11 = M + 25

b) 4(N - 5) = -40

c) 3P +3 + 5P + P = 48