

1pg GLO7FB

1) Solve the following proportions:

- a) $A/-6 = 60/-36$
- b) $9/B = 72/32$
- c) $-11/88 = C/16$
- d) $27/18 = 3/D$

2) Write the ratios of the following:

a) The number of days in a non-leap year to the number of days in a leap year.

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

3) Evaluate the problems below:

- a) What is 15% of 40?
- b) 12 is 20% of what?
- c) What percent of 12 is 9?

4) Fill in the chart below

fraction	decimal	percent
$5/8$		
	0.95	
		110%
$1/3$		
	-0.7	
		0.5%

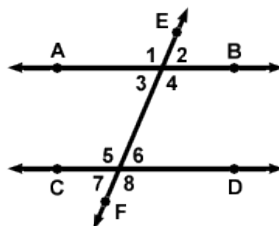
5) Solve the following:

- a) Find the new cost after a 25% discount has been taken off \$48.00
- b) Compute the total cost a \$28.00 meal plus a 20% tip.
- c) Total cost of a \$12.00 item after a 5.5% tax is added.
- d) Compute the percent of decrease on an item that originally sold for \$16.00 but now sells for \$12.00.

6) Compute:

- a) $-27 \div -9 =$
- b) $-7 + (-3) + 5 =$
- c) $(-3)^3 =$
- d) $4(7 - 9) =$
- e) $(-5) + (-8)(-2) =$
- f) $33 \div -11 =$
- g) $(-4)(3)(2)(-1) =$
- h) $6 + (-6) - 6 + (6) =$

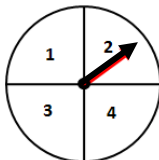
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 3 is 80° , list the measures of each of the other numbered angles.



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

- $m\angle 1 + m\angle 3 =$
- $m\angle 5 + m\angle 7 =$
- $m\angle 1 + m\angle 4 =$
- $m\angle 1 - m\angle 4 =$
- $m\angle 2 - m\angle 3 =$
- $m\angle 5 + m\angle 6 + m\angle 7 + m\angle 8 =$

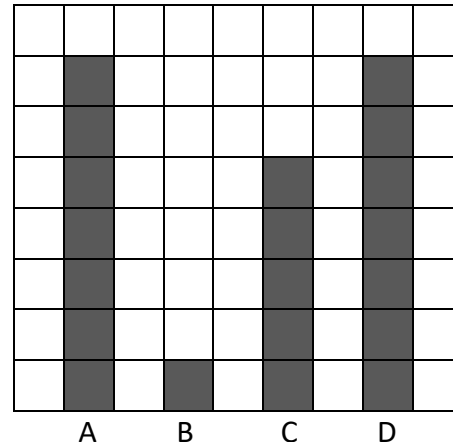
9) Using the spinner shown here, compute the following probabilities:



- a) The probability of spinning a "3" =
- b) The probability of spinning a number less than 5 =
- c) The probability of spinning a "2" 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 A or D?



11) The volume of the rectangular prism below is 48 in^3 . Find the height and total surface area.

$W = 2 \text{ in.}$ $L = 6 \text{ in.}$



$H =$ $TSA =$

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

- a) $4X - Y =$
- b) $Y^3 - 2Z =$
- c) $Y(XYZ) =$

13) Solve for the variable shown:

- a) $5M - 11 = M + 13$
- b) $4(N + 5) = 0$
- c) $P + 6 + 5P = 48$