

1pg GLO7FA

1) Solve the following proportions:

- a) $A/-7 = 88/-56$
- b) $12/B = 132/33$
- c) $-13/78 = C/30$
- d) $9/16 = 3/D$

2) Write the ratios of the following:

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

b) The number of minutes in a quarter hour to the number of hours in two days.

3) Evaluate the problems below:

- a) What is 75% of 36?
- b) 14 is 20% of what?
- c) What percent of 15 is 5?

4) Fill in the chart below

fraction	decimal	percent
$7/8$		
	0.951	
		140%
$2/3$		
	-0.02	
		9.5%

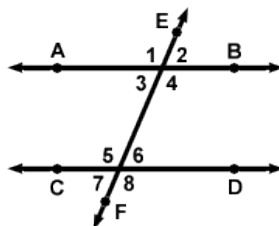
5) Solve the following:

- a) Find the new cost after a 25% discount has been taken off \$52.00
- b) Compute the total cost a \$35.00 meal plus a 20% tip.
- c) Total cost of an \$8.00 item after a 5.5% tax is added.
- d) Compute the percent of increase on an item that now sells for \$28.00 but originally sold for \$21.00.

6) Compute:

- a) $-24 \div -3 =$
- b) $7 + (-3) - 5 =$
- c) $(-2)^3 =$
- d) $2(6 - 9) =$
- e) $(-5) + (-8) + (-2) =$
- f) $30 \div -10 =$
- g) $(4)(3)(2)(-1) =$
- h) $6 + (-6) - 6 + (-6) =$

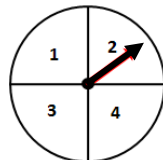
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 3 is 75° , list the measures of each of the other numbered angles.



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

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

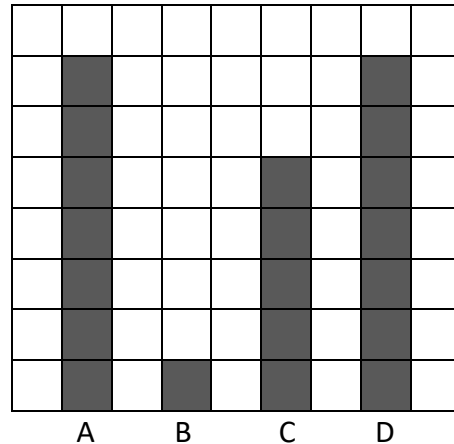
9) Using the spinner shown here, compute the following probabilities:



- a) The probability of spinning a "2" =
- b) The probability of spinning an even number =
- c) The probability of spinning a "1" 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 B?



11) The volume of the rectangular prism below is 84 in^3 . Find the length and total surface area.

$W = 4 \text{ in.}$ $H = 3 \text{ in.}$



$L =$ $TSA =$

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

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

13) Solve for the variable shown:

- a) $7M - 4 = M + 14$
- b) $3(N + 5) = 9$
- c) $P + 6 + 2P = 21$