

# 1pg GLO7FF

## 1) Solve the following proportions:

- $A/-2 = 40/-16$
- $6/B = 72/12$
- $-11/55 = C/35$
- $27/45 = 3/D$

## 2) Write the ratios of the following:

a) Three times the number of days in April to four times the number of days in June.

b) The number of inches in two feet to the number of feet in five yards.

## 3) Evaluate the problems below:

- What is 5% of 40?
- 17 is 10% of what?
- What percent of 12 is 4?

## 4) Fill in the chart below

| fraction | decimal | percent |
|----------|---------|---------|
| $3/8$    |         |         |
|          | 0.15    |         |
|          |         | 170%    |
| $2/3$    |         |         |
|          | -0.9    |         |
|          |         | 0.3%    |

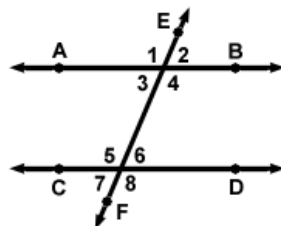
## 5) Solve the following:

- Find the new cost after a 25% discount has been taken off \$20.00
- Compute the total cost a \$35.00 meal plus a 20% tip.
- Total cost of a \$20.00 item after a 5.5% tax is added.
- Compute the percent of decrease on an item that originally sold for \$40.00 but now sells for \$32.00.

## 6) Compute:

- $-35 \div -7 =$
- $-8 + (-3) + 5 =$
- $(-1)^4 =$
- $5(2 - 9) =$
- $5 + (-8)(-2) =$
- $-33 \div -11 =$
- $(-4)(3)(2)(-1) =$
- $-6 + (-6) - 6 + (-6) =$

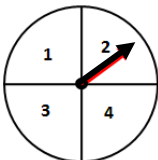
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 3 is  $60^\circ$ , list the measures of each of the other numbered angles.



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

$$\begin{aligned}
 m\angle 1 + m\angle 3 &= \\
 m\angle 5 + m\angle 7 &= \\
 m\angle 1 + m\angle 4 &= \\
 m\angle 1 - m\angle 4 &= \\
 m\angle 2 - m\angle 3 &= \\
 m\angle 5 + m\angle 6 + m\angle 7 + m\angle 8 &=
 \end{aligned}$$

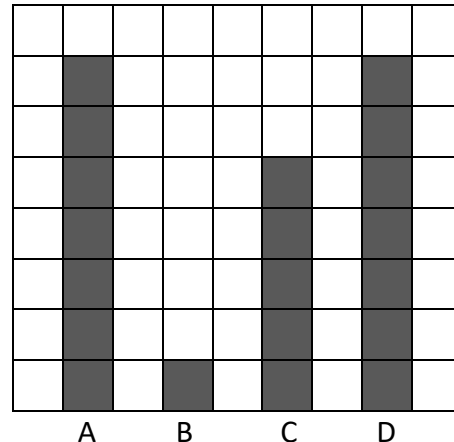
9) Using the spinner shown here, compute the following probabilities:



- The probability of spinning a "4" =
- The probability of spinning a number less than 5 =
- 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 C or D?



11) The volume of the rectangular prism below is  $80 \text{ in}^3$ . Find the length and total surface area.

$$W = 2 \text{ in.} \quad H = 5 \text{ in.}$$



$$L = \quad \quad \quad \text{TSA} =$$

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

- $5X - Y =$
- $Y^3 - 3Z =$
- $Z(XYZ) =$

13) Solve for the variable shown:

- $5M - 11 = M + 13$
- $6(N + 5) = 72$
- $2P + 4 + 9P = 48$