

1) Solve the following proportions:

- a) $A/-4 = 77/-28$
b) $7/B = 63/18$
c) $-10/-60 = C/30$
d) $9/45 = 3/D$

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 A.

b) The number of minutes in a half hour to the number of hours in three days.

3) Evaluate the problems below:

- What is 35% of 80?
- 14 is 25% of what?
- What percent of 15 is 10?

4) Fill in the chart below

fraction	decimal	percent
$\frac{3}{8}$		
	0.07	
		200%
$\frac{3}{3}$		
	-0.8	
		2%

5) Solve the following:

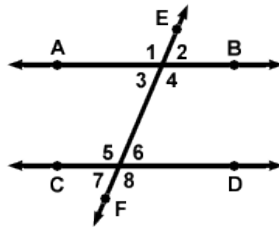
- Find the new cost after a 25% discount has been taken off \$32.00
- Compute the total cost a \$45.00 meal plus a 20% tip.
- Total cost of an \$8.00 item after a 7.5% tax is added.
- Compute the percent of decrease on an item that now sells for \$28.00 but originally sold for \$35.00.

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6) Compute:

- $-24 \div 8 =$
- $9 + (-3) + 4 =$
- $(-2)^4 =$
- $4(6 - 10) =$
- $(-5) + (-6 - 3) =$
- $60 \div -10 =$
- $(-4)(3)(2)(-1) =$
- $8 + (-7) - 5 =$

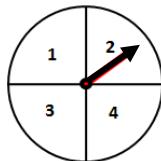
7) The diagram below shows a set of parallel lines being cut by a transversal. If the measure of angle 4 is 110° , list the measures of each of the other numbered angles.



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

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

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



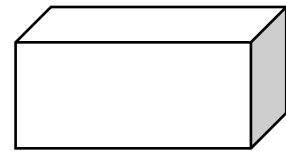
- a)** The probability of spinning a “1” =
- b)** The probability of spinning an odd number =
- c)** The probability of spinning a “1” on each of your next 2 spins?

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 C or D?

11) The volume of the rectangular prism below is 63 in^3 . Find the length and total surface area.

W = 3 in. H = 3 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) $6M + 8 = M + 43$
- b) $2(N + 3) = 22$
- c) $5P + 8 + P = 32$