

is %
of 100

QUIZ #3 STUDY GUIDE

I. PERCENTS

1. 15 is what percent of 92?

$$\frac{15}{92} = \frac{x}{100}$$

$$92x = 1500$$

$$x = 16.3\%$$

2. What number is 40% of 68?

$$\frac{x}{68} = \frac{40}{100}$$

$$2720 = 100x$$

$$x = 27.2$$

3. 22 is 33% of what number?

$$\frac{22}{x} = \frac{33}{100}$$

$$2200 = 33x$$

$$x = 66.\bar{6}$$

4. What is 52% of 128?

$$\frac{x}{128} = \frac{52}{100}$$

$$6656 = 100x$$

$$x = 66.56$$

5. Kentucky Fried Chicken is having a big sale on the buckets of fried chicken. One bucket normally costs \$18.99. Today it is 12% off!

a). How much did you SAVE?!

$$18.99(.12) = 2.2788 \approx \$2.28$$

b) how much did you pay for the bucket of chicken after the discount?

$$18.99 - 2.28 = \$16.71 \text{ for a bucket}$$



II. LITERAL EQUATIONS

FOR #6-9, SOLVE FOR Y.

6. $7x + y = 22$

$$\begin{array}{r} 7x \quad -7x \\ \hline y = -7x + 22 \end{array}$$

7. $8x - 2y = 26$

$$\begin{array}{r} -8x \quad -8x \\ \hline -2y = -8x + 26 \\ \frac{-2y}{-2} = \frac{-8x}{-2} + \frac{26}{-2} \\ y = 4x - 13 \end{array}$$

8. $6y - 8 = 6x + 16$

$$\begin{array}{r} +8 \quad +8 \\ \hline 6y = 6x + 24 \\ \frac{6y}{6} = \frac{6x}{6} + \frac{24}{6} \\ y = x + 4 \end{array}$$

9. $-x + 5y = 9x - 15$

$$\begin{array}{r} +x \quad +x \\ \hline 5y = 10x - 15 \\ \frac{5y}{5} = \frac{10x}{5} - \frac{15}{5} \\ y = 2x - 3 \end{array}$$

10. Solve for d.

$$r \cdot \frac{d}{r} = t \cdot r$$

$$d = tr$$

11. Solve for w.

$$\begin{array}{r} A = lw \\ \frac{A}{l} \quad \frac{A}{l} \\ w = \frac{A}{l} \end{array}$$

MAKE SURE YOU GO BACK AND LOOK OVER HOMEWORK, NOTES, AND OTHER MATERIAL TO REALLY STUDY! CHECK YOUR ANSWERS ON HINSDALEMATH.WEEBLY.COM