January 24, 2012

Get out your homework

Pink WS5

10)

$$\frac{8}{23.92} = \frac{2 \cdot x}{2 \cdot 11.96}$$

$$\frac{2}{2392}$$

$$4pkg = x$$

1/24 - Solving Percent Equations using Proportions

"Percent" means...

out of 100

If you got 22 out of 25 on a quiz, what % is that?

part

whole

$$\frac{22 \cdot 4}{25 \cdot 4 = 100} = \frac{\boxed{88}}{100}$$

part

whole

Identifiy the part and the whole in each:

45 is what percent of 50?
Part   Whole

75 is 38% of what number?
Part   Whole

What is 85% of 46?
Part   Whole

Whole
= how many
possible

Part
= your
score

$$\frac{is}{of}$$

Solve each by setting up proportions and solving.

What number is 75% of 60?

$$\frac{n}{60} = \frac{75}{100}$$

$$\frac{100n}{100} = \frac{4500}{100}$$

$$\boxed{n = 45}$$

40 out of 56 is what percent?

$$\frac{40}{56} = \frac{x}{100}$$

$$\frac{56x}{56} = \frac{4000}{56}$$

$$x = 71.4\%$$

120 is 25% of what number?

$$\frac{120}{x} = \frac{25}{100}$$

$$\frac{25x}{25} = \frac{12000}{25}$$

$$x = 480$$

45 is what percent of 180?

$$\frac{45}{180} = \frac{P}{100}$$

$$p = 25\%$$

Solve each by setting up proportions and solving.

97 is <u>62%</u> of what number?

$$\frac{97}{x} = \frac{62}{100}$$

$$\frac{62x}{62} = \frac{9700}{62}$$

$$x = 156.5$$

84 is what percent of 86?

$$\frac{84}{86} \diagup \frac{P}{100}$$

$$\frac{86p}{86} = \frac{8400}{86}$$

$$p = 97.7\%$$

27 out of 56 is what percent?

What number is 4% of 110?

Homework:

Blue Worksheet 6

Due Wednesday