

Percent Proportions

Setting up a PERCENT PROPORTION

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

$$.25 \times 124 = X \quad X=31$$

25% of 124 is what number?

$$\frac{X}{124} = \frac{25}{100}$$

$$\frac{100X}{100} = \frac{3100}{100} \quad X=31$$

Example 1

What is $25\frac{1}{4}\%$ of 30?

$$\frac{X}{30} = \frac{25.25}{100}$$

$$\frac{100X}{100} = \frac{757.5}{100}$$

$$X = 7.575$$

Example 2

58.2% of 50 is what number?

$$\frac{X}{50} = \frac{58.2}{100}$$

$$\frac{100X}{100} = \frac{2910}{100}$$

$$X = 29.10$$

Example 3

5% of what number is $6\frac{1}{2}$?

$$\frac{6.5}{X} = \frac{5}{100}$$

$$X = 130$$

Example 4

0.55% is 1.65 of what number?

$$\frac{.55}{100} = \frac{1.65}{X}$$

$$X = 300$$

Example 5

12 is what percent of 30?

$$\frac{12}{30} = \frac{X}{100}$$

$$\frac{30X}{30} = \frac{1200}{30}$$

$$X = 40\%$$

Example 6

What percent of 49 is 7?

$$\frac{X}{100} = \frac{7}{49}$$

$$X = 14.2857$$

Example 7

64.2% of 84 is what number?

$$\frac{X}{84} = \frac{64.2}{100}$$

$$\frac{100X}{100} = \frac{5392.8}{100}$$

$$X = 53.9$$

Example 8

25% of what number is $12\frac{1}{2}$?

$$\frac{12.5}{X} = \frac{25}{100}$$

$$\frac{15}{100} = \frac{90}{100}$$

$$X = 50$$

Attachments

mental math division.ppt