Percent Proportion   10/7

* Use For Word problems *

$$\frac{\%}{100} = \frac{IS \ (Part)}{Of \ (Whole)}$$

Examples:

1. What is 30% of 60?

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

$$\frac{30}{100} = \frac{X}{60}$$

$$\frac{100X}{100} = \frac{1800}{100}$$

$$\boxed{X = 18}$$

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2. What percent of 75 is 15?

$$\frac{\%}{100} = \frac{IS}{of}$$

$$\frac{X}{100} = \frac{15}{75}$$

$$\frac{75X}{75} = \frac{1500}{75}$$

$$\boxed{X = 20\%}$$

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1

3. **90%** of what number **is 27**?

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

$$\frac{90}{100} = \frac{27}{x}$$

$$\frac{90x}{90} = \frac{2700}{90}$$

$$\boxed{x = 30}$$

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In a class, there are 12 boys and 8 girls. $= 20$

What percent of the class is boys?

$$\frac{\%}{100} = \frac{is \, (part)}{of \, (whole) \\ Total}$$

$$\frac{x}{100} = \frac{12}{20}$$

×5

×5

$$\boxed{60\%}$$

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2

On a 25 question test. Marty earned an 80%. How many questions did he miss?

$$\frac{\%}{100} = \frac{Part}{Total}$$

$$\frac{80}{100} = \frac{X}{25}$$

$$2000 = 100x$$

$$X = 20 \leftarrow Correct$$

He missed 5 questions

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