Using Proportions to Solve Percent Problems

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

13 is 70% of what number

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$$\frac{is}{of} = \frac{\%70}{100}$$

13 is the IS 70 is the % and we want to find the of
Now you have a proportion set up...solve it.

$$\frac{13}{?} = \frac{70}{100}$$

$$\frac{13 \times 100}{70} \approx \boxed{18.6}$$

$$\frac{part}{whole} = \frac{\%}{100}$$

Elizabeth got 34 correct out of 40 questions on her test. What percent did she get correct?

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$$\frac{^{34}part}{_{40}whole} = \frac{\%}{100}$$

34 is the part and 40 is the whole (notice the of?)
Now you have a proportion set up...solve it.

$$\frac{34}{40} = \frac{?}{100}$$

$$\frac{34 \times 100}{40} = \boxed{85\%}$$