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1st Approach:

150 is what percent of 600?

- 1) To answer this question, write a fraction that compares the two: $\frac{\text{part}}{\text{whole}}$
- 2) What's the part? 150
- 3) What's the whole? 600
- 4) Setup the fraction: $\frac{150}{600}$
- 5) Perform the division and multiply by 100 to get a percent: (0.25)(100)=25%

6)
$$\frac{\text{part}}{\text{whole}} \cdot 100 = \frac{150}{600} \cdot 100 = 25\%$$

2nd Approach (more formal):

1) Setup a proportion as shown below.

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

2) Replace the part with 150, and the whole with 600.

$$\frac{x}{100} = \frac{150}{600}$$

- 3) Multiply both sides by 100.
 - 3a) Setup the multiplication: $100 \cdot \frac{x}{100} = \frac{150}{600} \cdot 100$
 - 3b) Clear the 100's from the left side: $x = \frac{150}{600} \cdot 100 = (0.25) \cdot 100 = 25\%$

3rd Approch: (for those who wish to truly understand)

- 1) Divide 600 into 100 equal parts: $\frac{600}{100} = 6$
- 2) How many of these equal parts fit inside 150? $\frac{150}{6} = 25$