Proportions and Percents

6th Grade Mathematics
Mr. Wong

6-6 Proportions and Percents

(Ex. 1) What percent of 25 is 13?

<i>is</i> %	13	X
of 100	25	100
What is the "is"?	25 • x =	= 13 • 100
What is the "of"?	25 x =	- 1300
What is the "%"?	÷ 25	÷ 25
Cross Multiply	v =	= 52%
Solve	Λ -	- <i>J </i>

(Ex. 2) Find 116% of 75.

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

$$\frac{x}{75} = \frac{116}{100}$$
What is the "is"? $75 \cdot 116 = x \cdot 100$
What is the "of"? $8700 = 100x$
What is the "\%"? \div

$$\frac{\div}{100} = \frac{100}{100}$$
Cross Multiply
Solve

(Ex. 3) Find 96% of 5.7.

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

$$\frac{x}{5.7} = \frac{96}{100}$$
What is the "is"? $5.7 \cdot 96 = x \cdot 100$
What is the "of"? $547.2 = 100x$
What is the "%"? \div

$$\frac{100}{547.2} = \frac{100}{100}$$
Solve
$$\frac{100}{5.472} = \frac{100}{100}$$

(Ex. 4) 75 is what percent of 250?

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

$$\frac{75}{250} \times \frac{x}{100}$$
What is the "is"?
$$250 \cdot x = 75 \cdot 100$$
What is the "of"?
$$250 \times x = 7500$$
What is the "%"?
$$\frac{250}{250} \times x = 7500$$
Solve
$$\frac{250}{250} \times x = \frac{250}{250} \times \frac{250}{$$