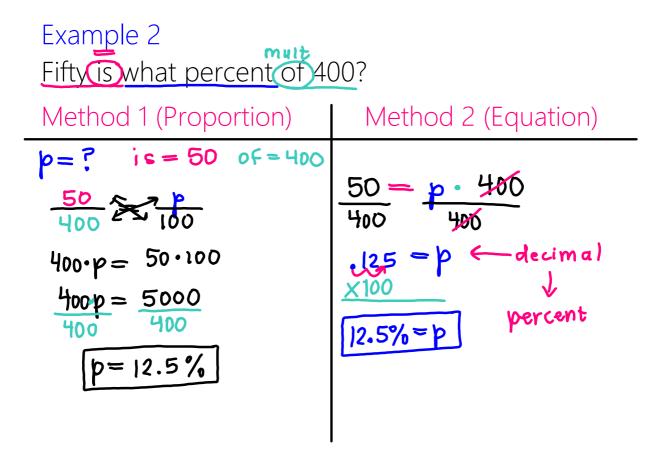
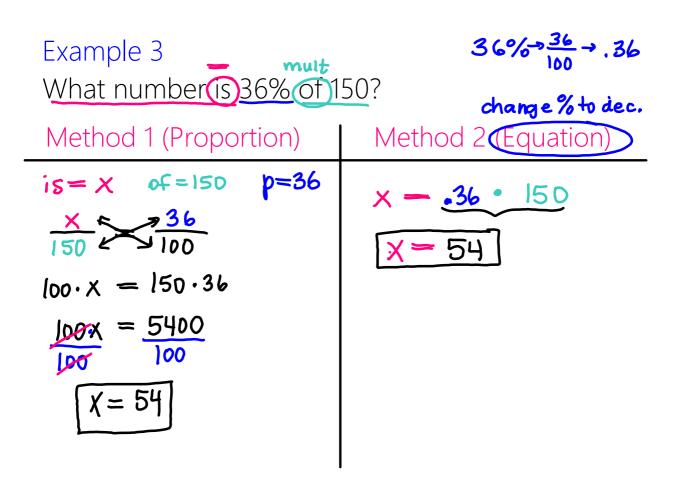
Chapter 2 Extra Lesson #1 Percent Problems percent means "per hundred" Example 1 Change $\frac{17}{20}$ to a percent. $\frac{17}{20} = 17 \cdot 100$ $20 \cdot p = 17 \cdot 100$ $20 p = \frac{1700}{20}$ p = 85%

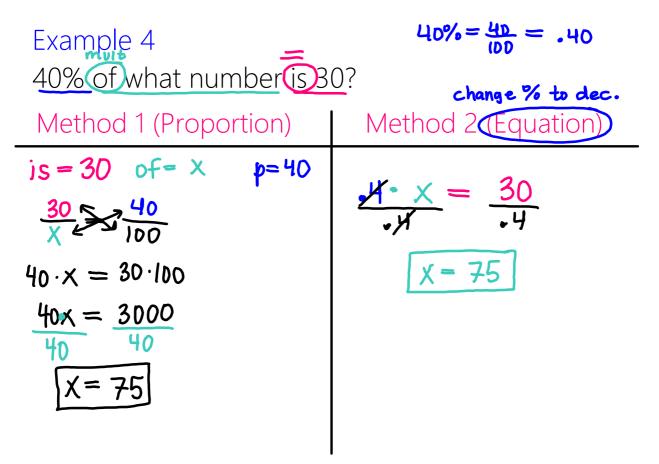
PERCENT PROPORTION

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

$$\frac{\text{part}}{\text{whole}} = \frac{\text{p}}{100}$$







Example 5 What is 19% of 46? Find <u>18% of 46</u> .	$18\% = \frac{18}{100} = .18$
Method 1 (Proportion)	change % to dec. Method 2 Equation
$is = x of = 46 p = 10$ $\frac{x}{46} < \frac{18}{100}$ $i00 \cdot x = 46 \cdot 18$ $i00 \cdot x = 828$ $i00$ $x = 8.28$	$X = .18 \cdot 46$ X = 8.28

Example 6 Faith bought a stereo that usually sells for \$220. She received a 20% discount. How much did she pay for the stereo? $20\% = \frac{20}{100} = .2$ change % to dec. Method 1 (Proportion) Method 2 (Equation) What is 20% of \$220? $\mathbf{x} = \mathbf{.2} \cdot \mathbf{220}$ p=20is= X of = 220 X = 44× 20 200 × 100 $100 \cdot x = 220 \cdot 20$ 100x = 440010D

Example 7	$\frac{art}{10le} = \frac{p}{100}$
John scored 85% on the l	ast test. He answered
<u>34 questions correctly</u> . H	ow many questions
were on the test?	$85\% = \frac{85}{100} = .85$
Method 1 (Proportion)	Method 2 (Equation)
part=34 whole=x p=85	all's REAL al the
	34 is 85% of what #?
$\frac{34}{\chi} = \frac{85}{100}$	$\frac{34}{.85} = \frac{.85}{.85} \cdot \frac{1}{.85}$
$\frac{34}{\chi} = \frac{85}{100}$ 85 · x = 34 · 100	_
<u>34</u> <u>85</u> <u>X</u> <u>100</u>	$\frac{34}{.85} = \frac{.85}{.85} \cdot \times$