

Name: \_\_\_\_\_

### CCM6 Percent Problems with Proportions and Equations

Percent	ratio that compares a number to 100
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VIC #1	$\frac{\%}{100} = \frac{\text{is \#}}{\text{of \#}}$ OR $\frac{\%}{100} = \frac{\text{Part}}{\text{Whole}}$
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Steps for using Proportions:	<ol style="list-style-type: none"><li>1. Always write the percent over <u>100</u>.</li><li>2. Write the "is" number over the "of" number</li><li>3. Substitute a variable for the unknown.</li><li>4. Solve the proportion for the missing value</li></ol>
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#### Solve using a Proportion

1. 12 is 40% of what number? **30**
2. 40 is what percent of 5? **800%**
3. Find 60% of 85. **51**

Steps for using equations	<ol style="list-style-type: none"><li>1. Change all percents to DECIMALS.</li><li>2. Change the words "of" to a MULTIPLICATION SIGN and "is" to EQUAL SIGN.</li><li>3. Substitute a variable for the unknown</li><li>4. Solve the equation.</li></ol>
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#### Solve using an equation:

1. 15 is 25% of what number? **60**
2. What percent of 300 is 129? **43%**
3. What is 95% of 40? **38**

#### You Try:

##### Solve using a Proportion

1. 36 is 50% of what number? **72**
2. What percent of 80 is 20? **25%**
3. Find 35% of 120. **42**

##### Solve using an equation:

1. 4 is 80% of what number? **5**
2. 39 is what percent of 78? **50%**
3. What is 55% of 985? **541.75**