

Name \_\_\_\_\_

Date \_\_\_\_\_

Mr. Tallman

**Homework #34 - Finding Percents using the Percent Equation**

1) Fill in the table below. DO NOT SOLVE.

$$\text{Part} = \text{Whole}(\%)$$

	<u>Part</u> (P)	<u>Whole</u> (W)	<u>Percent</u>	<u>Equation</u>
50 is 30% of what number?	50	X	30%	$50 = .3X$
What percent of 20 is 5?	5	20	X	$5 = 20X$
A baseball team won 30% of their games. If they won 60 games, how many games did they play?	60	X	30%	$60 = .3X$
In a class of 30, 42% of those students got A's. How many students got A's?	X	30	42%	$X = 30(.42)$

2) Solve the following percents using the percent equation. Round to the nearest tenth if necessary.

<p>A) 50 is 30% of what number?</p> <p>Part: <u>50</u></p> <p>Whole: <u>X</u></p> <p>Percent: <u>30</u></p> <p><math display="block">\text{Part} = \text{Whole}(\%)</math></p> <p><math display="block">50 = .3X</math></p> <p><math display="block">\frac{50}{.3} = \frac{.3X}{.3}</math></p> <p><math display="block">X = 166.7</math></p>	<p>B) What is 23% of 20?</p> <p>Part: <u>X</u></p> <p>Whole: <u>20</u></p> <p>Percent: <u>23</u></p> <p><math display="block">\text{Part} = \text{Whole}(\%)</math></p> <p><math display="block">X = 20(.23)</math></p> <p><math display="block">X = 4.6</math></p>
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3) A student took a math test that had 20 questions. He got 80% of them correct. How many questions did he answer correctly?

Part: X

Whole: 20

Percent: 80

$$\text{Part} = \text{Whole}(\%)$$

$$X = 20(.8)$$

$$X = 16 \text{ Correct}$$

4) There are 36 carpenters on a crew. On a certain day, 29 were present for work. What percent showed up for work that day? Round to the nearest tenth of a percent.

Part: 29

Whole: 36

Percent: X

$$\frac{29}{36} = \frac{.X \cdot 36}{36}$$

$$X = 0.80 \rightarrow 80\%$$