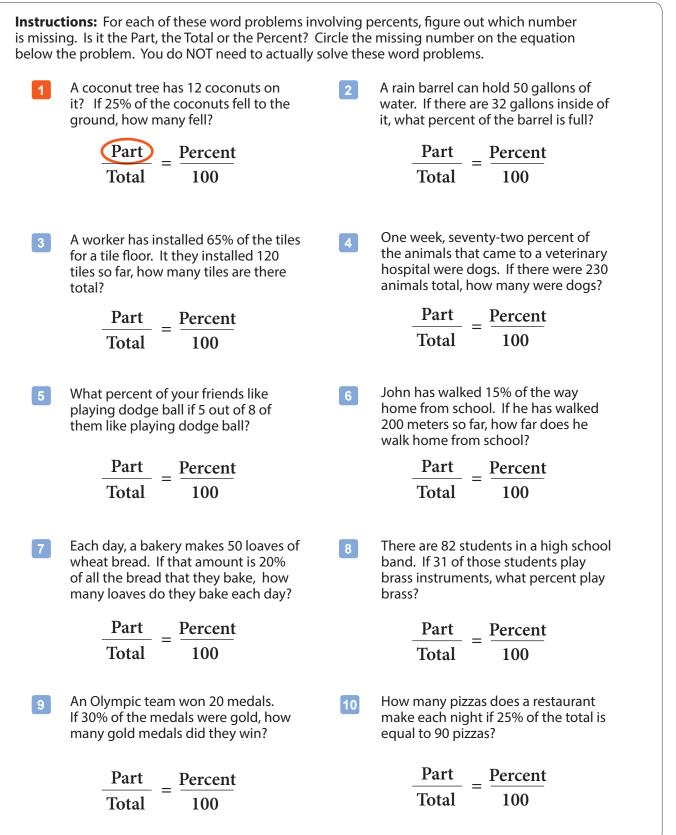
Math Antics[®] Worksheets

N	3	122		0
	α		C	

Date:

P-WP 1

Percent Word Problems: What Number is Missing?





Date:

What Percent Is It? - Equivalent Fraction Method P-WP 2 **Instructions:** Find the percent by converting to an equivalent fraction that has 100 as the bottom number, just like you learned in the video. 4 out of 25 is what percent? 10 out of 50 is what percent? 1 2 $\frac{4}{25 \times 4} \times \frac{4}{4} = \frac{16}{100} = 16\%$ What percent is 11 out of 20? What percent is 30 out of 200? 4 3 3 out of 5 is what percent? 9 out of 10 is what percent? 5 6 What percent is 15 out of 500? 7 8 What percent is 7 out of 5? 2.5 out of 10 is what percent? 9 10 1.5 out of 25 is what percent?



Date:

What Percent Is It? - Division Method

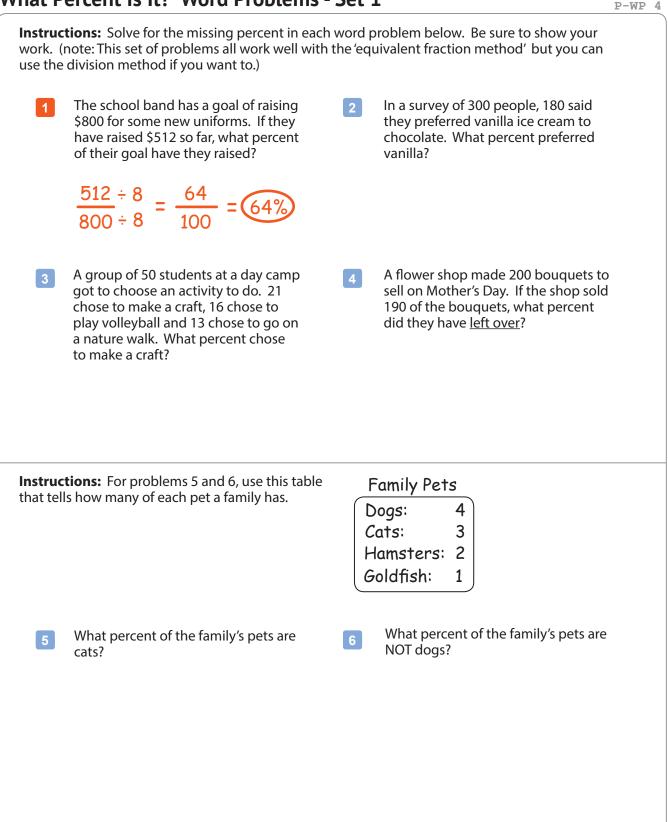
Instructions: The formula for finding a percent by the division method is shown below. First, divide the top number by the bottom number to get the decimal value of the fraction. Then, just move the decimal point two places to the right (which is exactly the same as multiplying by 100). You can use a calculator to do the division if you need to. Some percents will still have decimal digits (like 12.5%) Formula: **Example** 6 out of 8 is what percent? $\frac{6}{8}$ = 0.75 $\frac{\text{Part}}{\text{Part}} \times 100 = \text{Percent}$ divide_ 0.75 x 100 = (75 then multiply by 100 (or move the decimal point) 6 out of 30 is what percent? What percent is 8 out of 32? 2 1 9 out of 25 is what percent? 45 out of 60 is what percent? 3 4 What percent is 3 out of 8? What percent is 7 out of 8? 6 5 5 out of 15 is what percent? 5 out of 16 is what percent? 7 8





Date:

What Percent Is It? Word Problems - Set 1





Date:

What Percent Is It? Word Problems - Set 2

P-WP 5 Instructions: Solve each word problem below. Use the division method for these problems. You can use a calculator to do the division. If the percent has decimal digits, round it off to one decimal place (like 12.5%). If there are 5 gallons of gas in a car's A salt water fish tank has 24 fish in it. 2 fuel tank, and the tank can hold a If 3 of those fish are Clown Fish, what total of 18 gallons. What percent of percent are Clown Fish? the tank is full? $\frac{5}{18} = 0.277\overline{7}$ 0.2777 × 100 = 27.8% A marathon is a 26 mile run. If a A battery that lasts for 12 hours 4 3 has been in use for 7 hours. What marathon runner has run 19 miles percent of the battery life has been so far, what percent of the marathon has she completed? used up? Instructions: For problems 5 thru 8, Pies Made Daily use this table that tells how many pies Apple: 80 Blueberry: 30 a bakery makes each day. 50 Cherry: Banana Cream: 25 Peach: 40 Key Lime: 15 **Total Pies Made Daily: 240** What percent of the pies are apple? What percent of the pies are blueberry? 5 6 What percent of the pies are key lime? What percent of the pies are NOT peach? 6 5



Date:

What Percent Is It?

 For this percent word problem, figure out which component is missing and circle it on the equation below. (part, total or percent) Ellen got 47 questions right on her math test. If the test had a total of 50 questions, what percent did she get right? 	 For this percent word problem, figure out which component is missing and circle it on the equation below. If 60% of your class likes to play basketball at recess, and there are 30 students in your class, how many like playing basketball?
$\frac{Part}{Total} = \frac{Percent}{100}$	$\frac{\text{Part}}{\text{Total}} = \frac{\text{Percent}}{100}$
3 For this percent word problem, figure out which component is missing and circle it on the equation below.	For this percent word problem, figure out which component is missing and circle it on the equation below.
At a pizza party, 40% of the pizzas were pepperoni. If there were 6 pepperoni pizzas, how many pizzas were there in all?	What percent of Tom's pets are dogs if 3 out of 5 are dogs?
$\frac{Part}{Total} = \frac{Percent}{100}$	$\frac{\text{Part}}{\text{Total}} = \frac{\text{Percent}}{100}$
5 7 out of 20 is what percent?	6 9 out of 15 is what percent?
7 Paul asked 200 people what their favorite fruit was. 80 said it was bananas, 95 said it was apples, and the rest said it was some other fruit. What percent likes bananas the best?	8 A parking lot that has 520 spaces was filled with 390 cars. What percent of the parking lot was full?

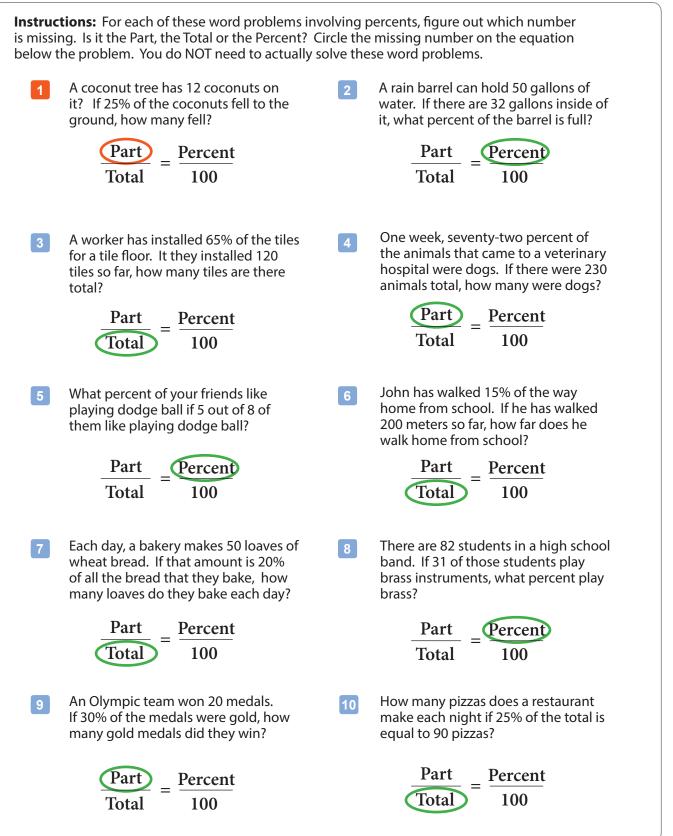
Math Antics[®] Worksheets

N	3	120	0	
	α		C	

Date:

P-WP 1

Percent Word Problems: What Number is Missing?



© 2013 Math Plus Motion, LLC



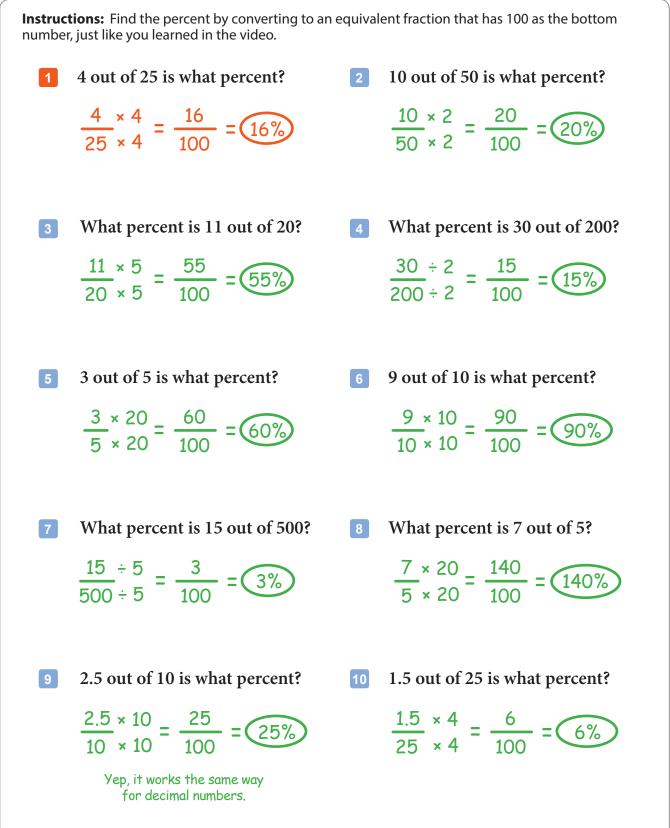
ame		

P-WP 2

Date:

Ν

What Percent Is It? - Equivalent Fraction Method





Date:

P-WP 3

What Percent Is It? - Division Method

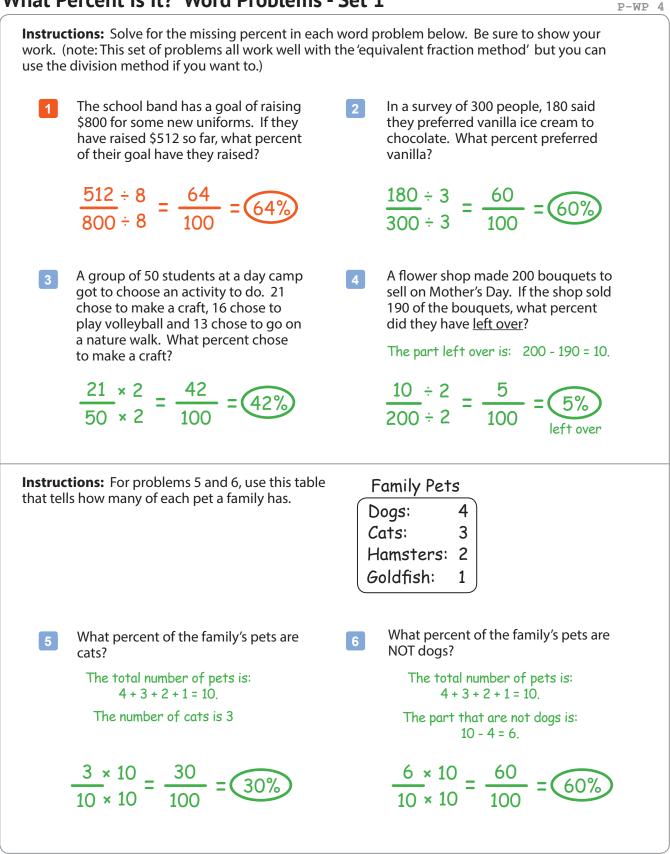
Instructions: The formula for finding a percent by the division method is shown below. First, divide the top number by the bottom number to get the decimal value of the fraction. Then, just move the decimal point two places to the right (which is exactly the same as multiplying by 100). You can use a calculator to do the division if you need to. Some percents will still have decimal digits (like 12.5%) Formula: **Example** 6 out of 8 is what percent? $\frac{\text{Part}}{\text{Total}} \times 100 = \text{Percent}$ divide $\frac{6}{8} = 0.75$ 0.75 x 100 = (75) then multiply by 100 (or move the decimal point) 6 out of 30 is what percent? What percent is 8 out of 32? 2 1 $\frac{8}{32}$ = 0.25 0.25 x 100= 25% $\frac{6}{30} = 0.2$ 0.2 × 100 = 20% 9 out of 25 is what percent? 45 out of 60 is what percent? 3 4 $\frac{9}{25} = 0.36$ 0.36 × 100= 36% $\frac{45}{60} = 0.75$ 0.75 × 100= 75% What percent is 3 out of 8? What percent is 7 out of 8? 6 5 $\frac{1}{8} = 0.875$ $\frac{3}{8} = 0.375$ 0.375 × 100 = (37.5% 0.875 × 100 = (87.5%) 5 out of 15 is what percent? 5 out of 16 is what percent? 7 8 $\frac{5}{16}$ = 0.3125 $\frac{5}{15} = 0.33\overline{3}$ 0.333 × 100 = (33.3%) 0.3125 × 100 = (31.3%) rounded off rounded off

© 2013 Math Plus Motion, LLC



Date:

What Percent Is It? Word Problems - Set 1





Date:

What Percent Is It? Word Problems - Set 2

P-WP 5 **Instructions:** Solve each word problem below. Use the division method for these problems. You can use a calculator to do the division. If the percent has decimal digits, round it off to one decimal place (like 12.5%). If there are 5 gallons of gas in a car's A salt water fish tank has 24 fish in it. 2 fuel tank, and the tank can hold a If 3 of those fish are Clown Fish, what total of 18 gallons. What percent of percent are Clown Fish? the tank is full? $\frac{5}{18} = 0.277\overline{7}$ $0.277\overline{7} \times 100 = (27.8\%)$ $\frac{3}{24} = 0.125$ $0.125 \times 100 = (12.5\%)$ A battery that lasts for 12 hours A marathon is a 26 mile run. If a 3 4 has been in use for 7 hours. What marathon runner has run 19 miles percent of the battery life has been so far, what percent of the marathon used up? has she completed? $\frac{7}{12} = 0.583\overline{3}$ $\frac{19}{26} = 0.7308$ $0.583\overline{3} \times 100 = (58.3\%)$ $0.7308 \times 100 = (73.1\%)$ Instructions: For problems 5 thru 8, Pies Made Daily use this table that tells how many pies Blueberry: Apple: 80 30 a bakery makes each day. 50 Cherry: Banana Cream: 25 Peach: 40 Key Lime: 15 **Total Pies Made Daily: 240** What percent of the pies are apple? What percent of the pies are blueberry? 5 6 The total number of pies is 240 $\frac{30}{240}$ = 0.125 = (12.5%) $\frac{80}{100}$ = 0.333 = (33.3% What percent of the pies are key lime? What percent of the pies are NOT peach? 5 6 The part that are not peach is $\frac{15}{240}$ = 0.0625 = 6.3% 240 - 40 = 200 $\frac{200}{240}$ = 0.833 = 83.3%

© 2013 Math Plus Motion, LLC

math	A	ntics
Exe		

Date:

What Percent Is It?

For this percent word problem, figure out which component is missing and circle it on the equation below. (part, total or percent) Ellen get 47 guestions right on her meth tool.	2 For this percent word problem, figure out which component is missing and circle it on the equation below.	
Ellen got 47 questions right on her math test. If the test had a total of 50 questions, what percent did she get right?	If 60% of your class likes to play basketball at recess, and there are 30 students in your class, how many like playing basketball?	
Part Percent	Part Percent	
Total 100	Total 100	
3 For this percent word problem, figure out which component is missing and circle it on the equation below.	4 For this percent word problem, figure out which component is missing and circle it on the equation below.	
At a pizza party, 40% of the pizzas were pepperoni. If there were 6 pepperoni pizzas, how many pizzas were there in all?	What percent of Tom's pets are dogs if 3 out of 5 are dogs?	
Part Percent	Part Percent	
Total 100	Total 100	
5 7 out of 20 is what percent?	6 9 out of 15 is what percent?	
$\frac{7 \times 5}{20 \times 5} = \frac{35}{100} = 35\%$	$\frac{9}{15} = 0.6 = 60\%$	
	Just divide 9 by 15 to get the decimal value. Then move the decimal point two places to the right to get the percent form.	
7 Paul asked 200 people what their favorite fruit was. 80 said it was bananas, 95 said it was apples, and the rest said it was some other fruit. What percent likes bananas the best?		
$\frac{80}{200} \div \frac{2}{2} = \frac{40}{100} = 40\%$	$\frac{390}{520} = 0.75 = \overline{75\%}$	

See Video for step-by-step solutions to each problem.