Part, Whole, and Percent

For every problem, write W, P, or % next to each number before you solve, and say which one is missing.

Name _____ Date _____

Words we use

say the math word, then the plain English

WORD	PLAIN ENGLISH	WHAT YOU DO
Whole	All of it, 100 percent.	Find the thing the percent is taken of.
Part	Some of it.	Find the share that is less (or more) than the whole.
Percent of	Multiply the whole by the percent as a decimal.	Read of as times: 40% of 35 is 35 times 0.40.
Proportion	Two equal ratios, from Unit 1.	Part over whole equals percent over 100, when it comes from reasoning.

Part A Name the pieces

SENTENCE	WHOLE	PART	PERCENT	MISSING
A team played 40 games and won 30.				
A jacket is 35 percent off.				
$45 is 30 percent of the price of a bike.				
What is 40 percent of 35?				

Part B Find the part

1. 40 percent of 35, two ways.

2. 15 percent of 60.

3. 7 percent of 300.

Part C Find the percent or the whole

1. 18 of 24 free throws went in. What percent?

2. $45 is 30 percent of the price. What is the price?

3. 12 is 60 percent of what number?

Part D Exit ticket

1. What is 15 percent of 60?

2. 18 of 24 free throws went in. What percent?

3. $45 is 30 percent of the price of a bike. What is the price?

Answer key

Part A. Games: whole 40, part 30, percent missing. Jacket: percent 35, whole and part missing. Bike: part 45, percent 30, whole missing. 40% of 35: whole 35, percent 40, part missing.

Part B. 1. 14. 2. 9. 3. 21.

Part C. 1. 75%. 2. $150. 3. 20.

Part D. 1. 9. 2. 75%. 3. $150.