

Finding a Percent of a Number (Using Fraction Form)

P-FPN 1

Instructions: Use the fraction form of the percent to solve each problem.

1 What is 30% of 20?

$$30\% \times 20$$

$$\frac{30}{100} \times \frac{20}{1} = \frac{600}{100} = 6$$

2 What is 40% of 10?

3 What is 60% of 30?

4 What is 70% of 20?

5 What is 10% of 50?

6 What is 40% of 50?

7 What is 80% of 30?

8 What is 30% of 30?

9 What is 90% of 40?

10 What is 15% of 20?

Finding a Percent of a Number (Using Fraction Form) - Set 2

P-FPN 2

Instructions: Use the fraction form of the percent to solve each problem.

1 What is 25% of 40?

$$25\% \times 40$$

$$\frac{25}{100} \times \frac{40}{1} = \frac{1000}{100} = 10$$

2 What is 10% of 30?

3 What is 15% of 20?

4 What is 12% of 50?

5 What is 5% of 80?

6 What is 7% of 400?

7 What is 2% of 150?

8 What is 6% of 150?

9 What is 25% of 200?

10 What is 25% of 4?

Finding a Percent of a Number (Using Decimal Form)

P-FPN 3

Instructions: Use the decimal form of the percent to solve each problem. You can use a **calculator** to do the decimal multiplication. Your answers may be decimal numbers.

1 What is 22% of 80?

$$22\% \times 80$$

$$0.22 \times 80 = 17.6$$

2 What is 14% of 30?

3 What is 36% of 45?

4 What is 55% of 50?

5 What is 85% of 80?

6 What is 45% of 30?

7 What is 14% of 25?

8 What is 33% of 140?

9 What is 39% of 110?

10 What is 95% of 220?

Finding a Percent of a Number: Word Problems

P-FPN 4

Instructions: Use what you learned about finding a percent of a number to solve each word problem. You can use either the fraction form or the decimal form of the percent, depending on which seems easier. Use a calculator to do decimal multiplication if you need to.

- 1** A pie shop bakes 500 pies each week. If 40 percent of those pies are apple, how many pies are apple?

$$40\% \times 500$$

$$\frac{40}{100} \times \frac{500}{1} = \frac{20000}{100} = 200$$

or using the decimal form:

$$0.40 \times 500 = 200$$

- 2** If 25 percent of your classmates have cats, and your class has 20 students, how many students have cats?

- 3** Last week, John ran 10 miles. If John runs 35 percent farther this week, then how many *more* miles did he run this week?

- 4** At Summer camp, 62 percent of the campers decide they want to go swimming instead of hiking. If there are 200 kids at the camp, how many go swimming?

- 5** Mary's current record for her swimming race is 120 seconds. If she can reduce her time by 5%, how many seconds *less* will that be?

- 6** If the school supplies you need cost \$25, but you have to pay 7% extra in sales tax, how much *extra* will you have to pay?

Finding a Percent of a Number: Word Problems - Set 2

P-FPN 5

Instructions: Use what you learned about finding a percent of a number to solve each word problem. Many of these are two-step problems so read them carefully so you are sure what the problem is really asking you to find. You can use a calculator if you need to.

- 1 A family spends \$50 for dinner at their favorite restaurant. If they also pay a tip of 18%, what will the total cost be?

the tip will be:

$$18\% \times 50$$

$$0.18 \times 50 = \$9$$

the total will be the cost of dinner PLUS the tip:

$$50 + 9 = \text{\$59}$$

- 3 A company uses 6,000 gallons of water each month. If they *reduce* their monthly water use by 12%, how much water will be saved each month?

- 2 If a child is 120 cm tall, but they grow 4 percent bigger in a year, how tall will they be?

- 4 A new and improved snack has 22% *fewer* calories than it had before? If the old version had 200 calories, how many calories does the new snack have?

- 5 Your friend wants to buy a pair of jeans that are on sale for 30% off. If the jeans' original price is \$40, how much will the sale price be?

- 6 Tom was able to save 35% more this year than he did last year. If he saved \$140 last year, how much did he save this year?