Name: _____

Date: _____

Finding a Percent of a Number (Using Fraction Form)

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

1 What is 30% of 20?

$$30\% \times 20$$

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

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?

Name: _____

Date: _____

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?

$$25\% \times 40$$

$$\frac{25}{100} \times \frac{40}{1} = \frac{100\cancel{0}}{100} = \boxed{10}$$

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?

Math Antics Worksheets

Finding a Percent of a Number (Using Decimal Form)

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?

$$22\% \times 80$$
$$0.22 \times 80 = \boxed{17.6}$$

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

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?

$$40\% \times 500$$

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

or using the decimal form:

$$0.40 \times 500 = \boxed{200}$$

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 in 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

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:

$50 + 9 = \$59$

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

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?

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?

Name:

Date:

Finding a Percent of a Number

1 What is 20% of 60?

2 Find 4% of 25.

3 Find 5% of 80?

4 What is 30% of 20?

5 What is 80% of 150?

6 What is 45% of 32?

7 Your class has 28 students.
If 25% of them play soccer,
how many students play soccer?

8 A game you want is on sale
for 15% off. If the regular price is
$50.00, how much will you save?

Finding a Percent of a Number (Using Fraction Form)

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?

$$40\% \times 10$$

$$\frac{40}{100} \times \frac{10}{1} = \frac{400}{100} = 4$$

3 What is 60% of 30?

$$60\% \times 30$$

$$\frac{60}{100} \times \frac{30}{1} = \frac{1800}{100} = 18$$

4 What is 70% of 20?

$$70\% \times 20$$

$$\frac{70}{100} \times \frac{20}{1} = \frac{1400}{100} = 14$$

5 What is 10% of 50?

$$10\% \times 50$$

$$\frac{10}{100} \times \frac{50}{1} = \frac{500}{100} = 5$$

6 What is 40% of 50?

$$40\% \times 50$$

$$\frac{40}{100} \times \frac{50}{1} = \frac{2000}{100} = 20$$

7 What is 80% of 30?

$$80\% \times 30$$

$$\frac{80}{100} \times \frac{30}{1} = \frac{2400}{100} = 24$$

8 What is 30% of 30?

$$30\% \times 30$$

$$\frac{30}{100} \times \frac{30}{1} = \frac{900}{100} = 9$$

9 What is 90% of 40?

$$90\% \times 40$$

$$\frac{90}{100} \times \frac{40}{1} = \frac{3600}{100} = 36$$

10 What is 15% of 20?

$$15\% \times 20$$

$$\frac{15}{100} \times \frac{20}{1} = \frac{300}{100} = 3$$

Name: _____

Date: _____

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?

$25\% \times 40$

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

2 What is 10% of 30?

$10\% \times 30$

$$\frac{10}{100} \times \frac{30}{1} = \frac{300}{100} = \boxed{3}$$

3 What is 15% of 20?

$15\% \times 20$

$$\frac{15}{100} \times \frac{20}{1} = \frac{300}{100} = \boxed{3}$$

4 What is 12% of 50?

$12\% \times 50$

$$\frac{12}{100} \times \frac{50}{1} = \frac{600}{100} = \boxed{6}$$

5 What is 5% of 80?

$5\% \times 80$

$$\frac{5}{100} \times \frac{80}{1} = \frac{400}{100} = \boxed{4}$$

6 What is 7% of 400?

$7\% \times 400$

$$\frac{7}{100} \times \frac{400}{1} = \frac{2800}{100} = \boxed{28}$$

7 What is 2% of 150?

$2\% \times 150$

$$\frac{2}{100} \times \frac{150}{1} = \frac{300}{100} = \boxed{3}$$

8 What is 6% of 150?

$6\% \times 150$

$$\frac{6}{100} \times \frac{150}{1} = \frac{900}{100} = \boxed{9}$$

9 What is 25% of 200?

$25\% \times 200$

$$\frac{25}{100} \times \frac{200}{1} = \frac{5000}{100} = \boxed{50}$$

10 What is 25% of 4?

$25\% \times 4$

$$\frac{25}{100} \times \frac{4}{1} = \frac{100}{100} = \boxed{1}$$

Math Antics
Worksheets

Finding a Percent of a Number (Using Decimal Form)

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?

$14\% \times 30$

$0.14 \times 30 =$ 4.2

3 What is 36% of 45?

$36\% \times 45$

$0.36 \times 45 =$ 16.2

4 What is 55% of 50?

$55\% \times 50$

$0.55 \times 50 =$ 27.5

5 What is 85% of 80?

$85\% \times 80$

$0.85 \times 80 =$ 68

6 What is 45% of 30?

$45\% \times 30$

$0.45 \times 30 =$ 13.5

7 What is 14% of 25?

$14\% \times 25$

$0.14 \times 25 =$ 3.5

8 What is 33% of 140?

$33\% \times 140$

$0.33 \times 140 =$ 46.2

9 What is 39% of 110?

$39\% \times 110$

$0.39 \times 110 =$ 42.9

10 What is 95% of 220?

$95\% \times 220$

$0.95 \times 220 =$ 209

math Antics®
Worksheets

Name: _____

Date: _____

Finding a Percent of a Number: Word Problems

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?

$40\% \times 500$

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

or using the decimal form:

$0.40 \times 500 = \boxed{200}$

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

$25\% \times 20$

$$\frac{25}{100} \times \frac{20}{1} = \frac{500}{100} = \boxed{5}$$

or using the decimal form:

$0.25 \times 20 = \boxed{5}$

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?

$35\% \times 10$

$0.35 \times 10 = \boxed{3.5 \text{ mi}}$

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?

$62\% \times 200$

$0.62 \times 200 = \boxed{124}$

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

$5\% \times 120$

$0.05 \times 120 = \boxed{6 \text{ sec}}$

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?

$7\% \times 25.00$

$0.07 \times 25.00 = \boxed{\$1.75}$

Math Antics
Worksheets

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

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:

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

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

the amount they grow will be:

$4\% \times 120$

$0.04 \times 120 = 4.8 \text{ cm}$

their new height will be:

$120 + 4.8 = \boxed{124.8 \text{ cm}}$

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?

$12\% \times 6,000$

$0.12 \times 6,000 = \boxed{720 \text{ gal}}$

saved each month!

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?

$22\% \times 200$

$0.22 \times 200 = 44 \text{ calories}$

so the new total is:

$200 - 44 = \boxed{156 \text{ cal}}$

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?

the sale discount will be:

$30\% \times 40$

$0.30 \times 40 = \$12$

so the sale price will be:

$40 - 12 = \boxed{\$28}$

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?

the extra he saved is:

$35\% \times 140$

$0.35 \times 140 = \$49$

so the total he saved this year is:

$140 + 49 = \boxed{\$189}$

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Name: _____

Date: _____

Finding a Percent of a Number

1 What is 20% of 60?

$$20\% \times 60$$

$$\frac{20}{100} \times \frac{60}{1} = \frac{12\cancel{00}}{1\cancel{00}} = \boxed{12}$$

2 Find 4% of 25.

$$4\% \times 25$$

$$\frac{4}{100} \times \frac{25}{1} = \frac{100}{100} = \boxed{1}$$

3 Find 5% of 80?

$$5\% \times 80$$

$$\frac{5}{100} \times \frac{80}{1} = \frac{4\cancel{00}}{1\cancel{00}} = \boxed{4}$$

4 What is 30% of 20?

$$30\% \times 20$$

$$\frac{30}{100} \times \frac{20}{1} = \frac{6\cancel{00}}{1\cancel{00}} = \boxed{6}$$

5 What is 80% of 150?

$$80\% \times 150$$

$$0.8 \times 150 = \boxed{120}$$

6 What is 45% of 32?

$$45\% \times 32$$

$$0.45 \times 32 = \boxed{14.4}$$

7 Your class has 28 students. If 25% of them play soccer, how many students play soccer?

$$25\% \text{ of } 28$$

$$25\% \times 28$$

$$0.25 \times 28 = \boxed{7}$$

8 A game you want is on sale for 15% off. If the regular price is $50.00, how much will you save?

$$15\% \text{ of } \$50$$

$$15\% \times 50$$

$$0.15 \times 50 = 7.5$$

you will save: $\boxed{\$7.50}$

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