math Antics Worksheets

Name: _____

Date: _____

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?

$40\% \times 10$

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

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?

$15\% \times 20$

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

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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?

$10\% \times 30$

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

3 What is 15% of 20?

$15\% \times 20$

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

4 What is 12% of 50?

$12\% \times 50$

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

5 What is 5% of 80?

$5\% \times 80$

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

6 What is 7% of 400?

$7\% \times 400$

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

7 What is 2% of 150?

$2\% \times 150$

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

8 What is 6% of 150?

$6\% \times 150$

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

9 What is 25% of 200?

$25\% \times 200$

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

10 What is 25% of 4?

$25\% \times 4$

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

math Antics Worksheets

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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% × 80

0.22 × 80 = 17.6

2 What is 14% of 30?

14% × 30

0.14 × 30 = 4.2

3 What is 36% of 45?

36% × 45

0.36 × 45 = 16.2

4 What is 55% of 50?

55% × 50

0.55 × 50 = 27.5

5 What is 85% of 80?

85% × 80

0.85 × 80 = 68

6 What is 45% of 30?

45% × 30

0.45 × 30 = 13.5

7 What is 14% of 25?

14% × 25

0.14 × 25 = 3.5

8 What is 33% of 140?

33% × 140

0.33 × 140 = 46.2

9 What is 39% of 110?

39% × 110

0.39 × 110 = 42.9

10 What is 95% of 220?

95% × 220

0.95 × 220 = 209

math Antics Worksheets

Name: _____

Date: _____

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?

$25\% \times 20$

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

or using the decimal form:

$0.25 \times 20 = 5$

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?

$35\% \times 10$

$0.35 \times 10 = 3.5$ 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?

$62\% \times 200$

$0.62 \times 200 = 124$

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?

$5\% \times 120$

$0.05 \times 120 = 6$ 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?

$7\% \times 25.00$

$0.07 \times 25.00 = \$1.75$

math Antics Worksheets

Name: _____

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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% × 50

0.18 × 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?

the amount they grow will be:

4% × 120

0.04 × 120 = 4.8 cm

their new height will be:

120 + 4.8 = 124.8 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% × 6,000

0.12 × 6,000 = 720 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% × 200

0.22 × 200 = 44 calories

so the new total is:

200 - 44 = 156 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% × 40

0.30 × 40 = $12

so the sale price will be:

40 - 12 = $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% × 140

0.35 × 140 = $49

so the total he saved this year is:

140 + 49 = $189