math Antics
Worksheets

## 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 ?

$$
\begin{aligned}
& 30 \% \times 20 \\
& \frac{30}{100} \times \frac{20}{1}=\frac{600}{100}=6
\end{aligned}
$$

2 What is $40 \%$ of 10 ?

$$
\begin{aligned}
& 40 \% \times 10 \\
& \frac{40}{100} \times \frac{10}{1}=\frac{4 \varnothing \varnothing}{1 \varnothing \varnothing}=4
\end{aligned}
$$

4 What is $70 \%$ of 20 ?
$70 \% \times 20$
$\frac{70}{100} \times \frac{20}{1}=\frac{14 \varnothing \varnothing}{1 \varnothing \varnothing}=14$

6 What is $40 \%$ of 50 ?
$40 \% \times 50$
$\frac{40}{100} \times \frac{50}{1}=\frac{2000}{10 \varnothing}=20$

8 What is $30 \%$ of 30 ?
$30 \% \times 30$
$\frac{30}{100} \times \frac{30}{1}=\frac{9 \varnothing \varnothing}{1 \varnothing \varnothing}=9$

10 What is $15 \%$ of 20 ?
$15 \% \times 20$
$\frac{15}{100} \times \frac{20}{1}=\frac{3 \varnothing \varnothing}{1 \varnothing \varnothing}=3$
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## Date:

$\qquad$
Finding a Percent of a Number (Using Fraction Form) - Set 2
Instructions: Use the fraction form of the percent to solve each problem.

1 What is $25 \%$ of 40 ?
$25 \% \times 40$
$\frac{25}{100} \times \frac{40}{1}=\frac{10 \varnothing \varnothing}{1 \varnothing \varnothing}=10$
2 What is $10 \%$ of 30 ?

$$
10 \% \times 30
$$

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

4 What is $\mathbf{1 2 \%}$ of 50 ?

$$
12 \% \times 50
$$

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

6 What is 7\% of 400 ?

$$
\begin{aligned}
& 7 \% \times 400 \\
& \frac{7}{100} \times \frac{400}{1}=\frac{2800}{1 \varnothing \varnothing}=28
\end{aligned}
$$

8 What is $6 \%$ of 150 ?

$$
\begin{aligned}
& 6 \% \times 150 \\
& \frac{6}{100} \times \frac{150}{1}=\frac{9 \varnothing \varnothing}{1 \varnothing \varnothing}=9
\end{aligned}
$$

10 What is $25 \%$ of 4 ?
$25 \% \times 4$
$\frac{25}{100} \times \frac{4}{1}=\frac{1 \varnothing \varnothing}{1 \varnothing \varnothing}=1$

# math Antics 

Worksheets

## Date:

## 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 ?

$$
\begin{aligned}
& 22 \% \times 80 \\
& 0.22 \times 80=17.6
\end{aligned}
$$

3 What is $36 \%$ of 45 ?

$$
\begin{aligned}
& 36 \% \times 45 \\
& 0.36 \times 45=16.2
\end{aligned}
$$

5 What is $85 \%$ of 80 ?

$$
\begin{aligned}
& 85 \% \times 80 \\
& 0.85 \times 80=68
\end{aligned}
$$

7 What is $14 \%$ of 25 ?

$$
\begin{aligned}
& 14 \% \times 25 \\
& 0.14 \times 25=3.5
\end{aligned}
$$

9 What is $39 \%$ of 110 ?
$39 \% \times 110$
$0.39 \times 110=42.9$

2 What is $14 \%$ of 30 ?
$14 \% \times 30$
$0.14 \times 30=4.2$
4. What is $55 \%$ of 50 ?
$55 \% \times 50$
$0.55 \times 50=27.5$

6 What is $45 \%$ of 30 ?
$45 \% \times 30$
$0.45 \times 30=13.5$

8 What is $33 \%$ of 140 ?
$33 \% \times 140$
$0.33 \times 140=46.2$

10 What is $95 \%$ of $\mathbf{2 2 0}$ ?
$95 \% \times 220$
$0.95 \times 220=209$

## 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?
$40 \% \times 500$
$\frac{40}{100} \times \frac{500}{1}=\frac{200 \varnothing \varnothing}{100}=200$
or using the decimal form:


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?

$$
\begin{aligned}
& 35 \% \times 10 \\
& 0.35 \times 10=3.5 \mathrm{mi}
\end{aligned}
$$

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?


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?


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?

$$
\begin{aligned}
& 7 \% \times 25.00 \\
& 0.07 \times 25.00=\$ 1.75
\end{aligned}
$$

Worksheets
Date:

## 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:

$$
\begin{aligned}
& 18 \% \times 50 \\
& 0.18 \times 50=\$ 9
\end{aligned}
$$

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

$$
50+9=\$ 59
$$

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?

$$
\begin{aligned}
& 12 \% \times 6,000 \\
& 0.12 \times 6,000=\underbrace{720 \mathrm{gal}}_{\begin{array}{c}
\text { saved each } \\
\text { month! }
\end{array}}
\end{aligned}
$$

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:

$$
\begin{aligned}
& 30 \% \times 40 \\
& 0.30 \times 40=\$ 12
\end{aligned}
$$

so the sale price will be:

$$
40-12=\$ 28
$$

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:

$$
\begin{aligned}
& 4 \% \times 120 \\
& 0.04 \times 120=4.8 \mathrm{~cm}
\end{aligned}
$$

their new height will be:

$$
120+4.8=124.8 \mathrm{~cm}
$$

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?


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:

$$
\begin{aligned}
& 35 \% \times 140 \\
& 0.35 \times 140=\$ 49
\end{aligned}
$$

so the total he saved this year is:


