7.3 Percents and Decimals

Goal: Use decimals to solve percent problems.

Percents and Decimals



25%.

- · To write a decimal as a percent, move the decimal point two places to the n'ant and a 'x sign.
- · To write a percent as a decimal, move the decimal point two places to the and and anu

Example 1 Writing Decimals as Percents

Write 0.17, 2, and 3.2 as percents.

a.
$$0.17 = 0.17$$

b.
$$2 = 200$$

c.
$$3.2 = 3.20$$

Example 2 Writing Percents as Decimals

Write 63%, 0.7%, and 129% as decimals.

Checkpoint Write the decimal as a percent or the percent as a decimal.

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1 . 0,54	2. 400	3. 1.75	4. 0.03
54%	400%	175%	3%
\$241%	6. 147%	D.3%	£ 12,5%
0.4/	1.47	0.09	0.125

Example 3 Writing Fractions as Percents

Write $\frac{4}{9}$ and $\frac{7}{4}$ as percents.

a.
$$\frac{4}{9} = 0$$

Write fraction as a decimal.

Write decimal as a percent.

b.
$$\frac{7}{4} = 1.75$$

Write fraction as a decimal.

Write decimal as a percent.

Checkpoint Write the fraction as a percent.

9. $\frac{5}{8}$	10 . $\frac{8}{9}$	11. 11/5 Z	12. \frac{13}{6} \mathfrac{7}{2} \frac{1}{6}
0,625	0.38888	2.20	2 166666
62,5%	88,8%	220%	216.6%

Example 4 Finding a Percent of a Number

Day of Dread In a survey of 1300 adults, 18% said the day they dread the most is Monday. How many adults chose Monday?

Solution

Find 18% of 1300.

18% of 1300 =
$$0.18$$
 • 1300 Write percent as decimal.
= 0.18 Multiply.

Answer: The number of adults that chose Monday is 39.

Checkpoint Find the percent of the number.

13. 25% of 76	14. 110% of 65	0. 7% of 500
0.25.76	101.65	0.007 • 500
19	71.5	3.5
19	71.5	0.0