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Introduction

Percents 5–6 contains ready-to-use activity pages to provide students with skill practice. The fun activities can be used to supplement and enhance what you are already teaching in your classroom. Give an activity page to students as independent class work, or send the pages home as homework to reinforce skills taught in class. An answer key is included at the end of the book as a convenient reference.

This book provides activities that will directly assist students in practicing basic skills and concepts. The structure of the book enhances students' learning and enables them to meet new challenges with confidence. The activities in this book progress from simple to more difficult. Because calculating percents relies on a mastery of multiplication and long division, you may decide if your students should use calculators to complete the pages.

Students will receive reinforcement in the following skills:

- Identifying and naming percents
- Finding and ordering equivalent fractions, decimals, and percents
- Determining the percent of a number
- Finding a variable
- Using percents in real-world activities
- Solving equations involving percents

Use *Percents 5–6* to reinforce or extend concepts and skills. "Recharge" skill review with the ready-to-go activities in this book, and give students the power to succeed!

Name _____ Date _____
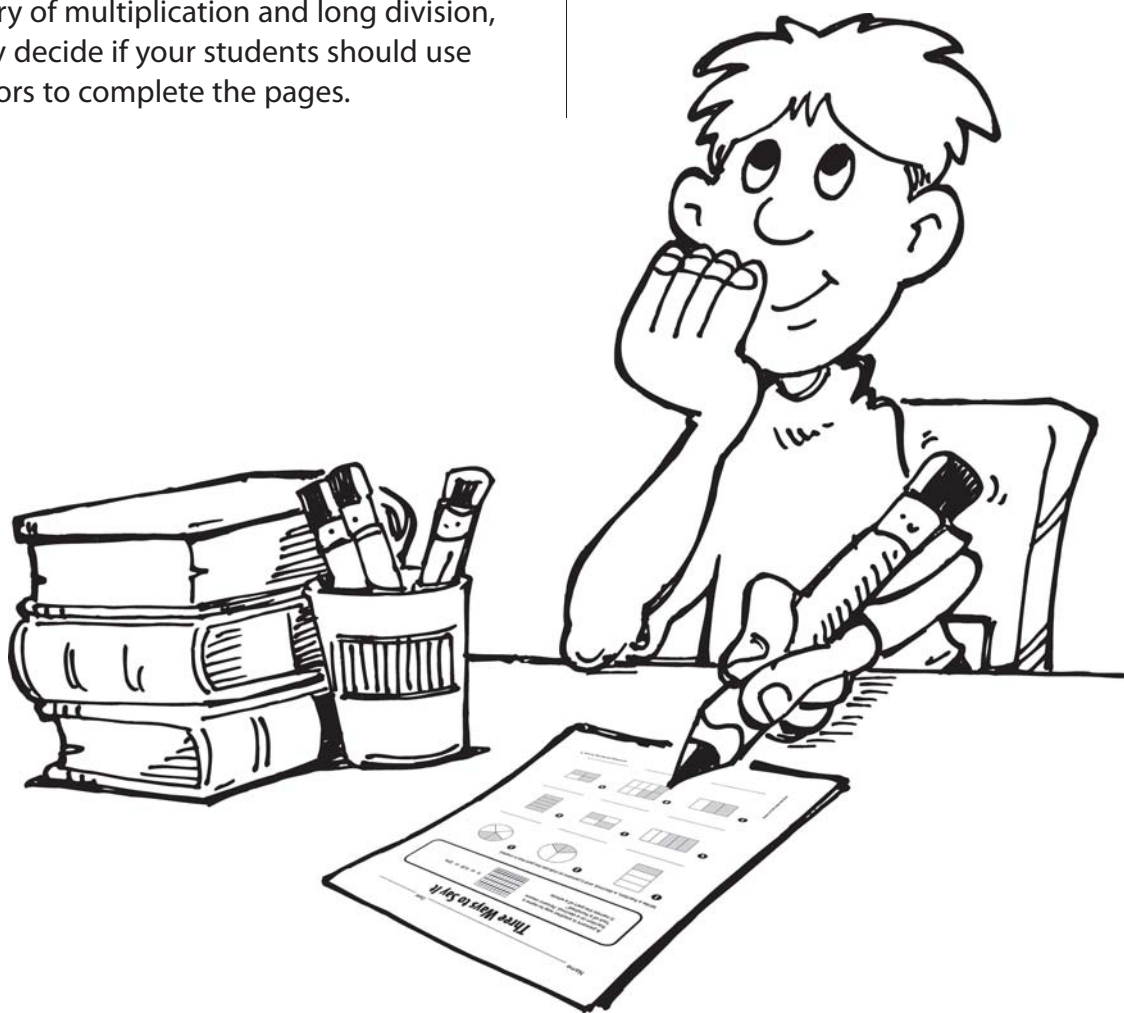
Parts of a Whole

A percent is another way to name a fraction or a decimal. **Percent** means "out of a hundred."
It names the part of a whole.

= 35%   = 25%
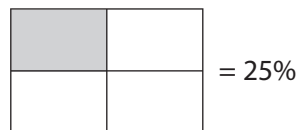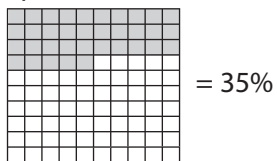
Write the percent that is shaded.

1   **2**   **3**

_____   _____   _____
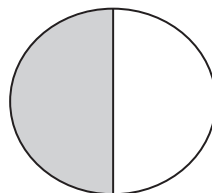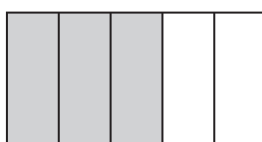
4   **5**   **6**

_____   _____   _____

7   **8**   **9**

_____   _____   _____

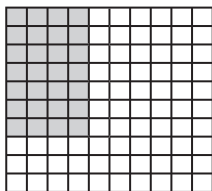# Three Ways to Say It

A percent is another way to name a fraction or a decimal. Percent means "out of a hundred." It names the part of a whole.

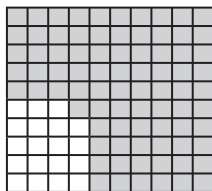⅕ or 0.20 or 20%

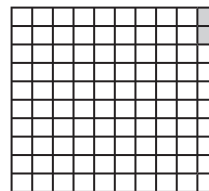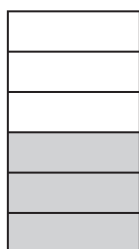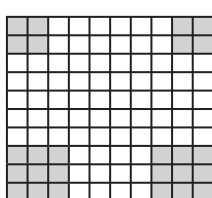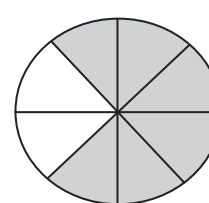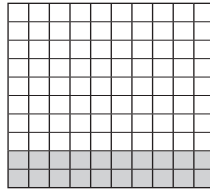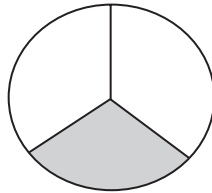Write a fraction, a decimal, and a percent to indicate the part that is shaded.

①

_____

②

_____

③

_____

④

_____

⑤

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⑥

_____

⑦

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⑧

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⑨

_____

Name _____ Date _____
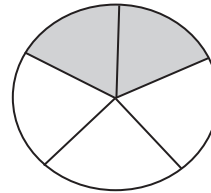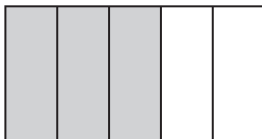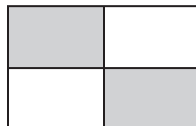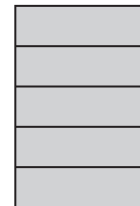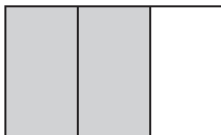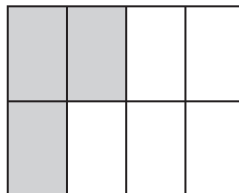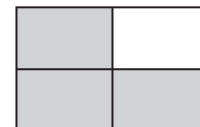
Ratios and Percents

To convert a ratio to a percent, the second term in the ratio must be 100.

Ratio: 4 out of 10	**Ratio**: 3 out of 5
1. Multiply both numbers by ten =	**1.** Multiply both numbers by 20 =
40 out of **100**	**60** out of **100**
2. Name the Percent = **40%**	**2.** Name the Percent = **60%**

Write the percent.

1 50 out of 100 _____	**2** 34 out of 100 _____	**3** 98 out of 100 _____
4 8 out of 100 _____	**5** 29 out of 100 _____	**6** 100 out of 100 _____
7 4 out of 5 _____	**8** 8 out of 25 _____	**9** 49 out of 50 _____
10 12 out of 20 _____	**11** 18 out of 20 _____	**12** 21 out of 25 _____
13 8 out of 50 _____	**14** 16 out of 100 _____	**15** 16.5 out of 25 _____
16 7 out of 10 _____	**17** 1.5 out of 50 _____	**18** 3.75 out of 20 _____

Name _____ Date _____

What's Missing?

Complete the chart with the missing ratio, fraction, and percent equivalents. Reduce fractions to lowest terms.

Ratio	Fraction	Percent
27 out of 100		
	¹⁶⁄₂₅	
48 out of 100		
		6%
		25%
35 out of 50		
		46%
	¾	
3 out of 5		
		58%

Decimals to Percents

Convert a decimal to a percent by multiplying the decimal by 100.

$0.5 \times 100 = 50\%$

Shortcut: Move the decimal two spaces to the right.

$0.5 \longrightarrow 0\ 5\ 0. = 50\%$

$0.25 \longrightarrow 0\ 2\ 5. = 25\%$

1 $0.25 =$

2 $0.5 =$

3 $0.3 =$

4 $0.4 =$

5 $0.6 =$

6 $0.62 =$

7 $0.125 =$

8 $0.8 =$

9 $0.10 =$

10 $0.99 =$

11 $0.32 =$

12 $0.45 =$

13 $0.625 =$

14 $0.725 =$

From Decimals to Percents or Back

Convert a decimal to a percent by multiplying the decimal by 100.
$$.25 \times 100 = 25\%$$

Shortcut: Move the decimal two spaces to the right.

0.5 $\longrightarrow$ 0 5 0. = 50%

.25 $\longrightarrow$ 0 2 5. = 25%

Convert a percent to a decimal by dividing the percent by 100.

25% $\longrightarrow$ $100\overline{)25.00}^{\,.25}$

Shortcut: Change the % sign to a decimal and move the decimal two spaces to the left.

25% = 2 5.

25. = .2 5

Change each decimal to a percent or each percent to a decimal.

1 30% =

2 0.7 =

3 75% =

4 0.84 =

5 95.5% =

6 0.955 =

7 0.67 =

8 0.96 =

9 99% =

10 0.33 =

11 0.123 =

12 10% =

Name _____ Date _____

Percents Greater Than One

Convert a decimal to a percent by multiplying the decimal by 100.

$$1.0 \times 100 = 100\%$$

Shortcut: Move the decimal two spaces to the right.

$$1.25 \longrightarrow 1\,2\,5. = 125\%$$

1 2.25 =

2 3.00 =

3 1.50 =

4 1.75 =

5 1.10 =

6 2.00 =

7 3.25 =

8 2.12 =

9 9.10 =

10 7.99 =

11 5.32 =

12 4.45 =

13 1.625 =

14 10.0 =

One Way or Another

> Convert a decimal to a percent by multiplying the decimal by 100.
>
> $$1.25 \times 100 = 125\%$$
>
> **Shortcut:** Move the decimal two spaces to the right.
>
> $$1.25 \longrightarrow 1\,2\,5. = 125\%$$

> Convert a percent to a decimal by dividing the percent by 100.
>
> $$125\% \longrightarrow 100\overline{)125.00}^{\;1.25}$$
>
> **Shortcut:** Change the % sign to a decimal and move the decimal two spaces to the left.
>
> $$125\% = 1\,2\,5.$$
> $$125. = 1.2\,5$$

Change each decimal to a percent or each percent to a decimal.

1 100% =

2 1.0 =

3 5.0 =

4 200% =

5 3.33 =

6 4.56 =

7 1,000% =

8 7.50 =

9 825% =

10 6.49 =

11 9.12 =

12 500% =