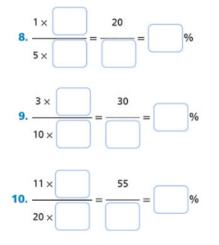
6th Grade Topic 6 Guided Notes Lesson 6-1

A ______ is a rate in which the first term is compared to 100.

The percent is the number of hundredths that represents the part of the

Percent is always out of _____!

In 8–10, use an equivalent fraction to find each percent.



- **16.** Choose Efficient Methods Your friend shows you a coin collection. In it, $\frac{45}{50}$ of the coins are quarters. What percent of the coins are quarters?
- 17. Use Patterns and Structure In a race, 19 out of 50 runners finished in less than 30 minutes. What percent of the runners finished in less than 30 minutes? Write an equivalent fraction to find the percent.

Write the percent as a reduced fraction

62%=

40%=

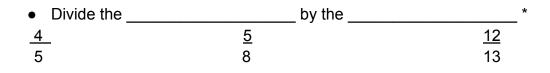
Lesson 6-2 Review

Goal #1: Write a Decimal as a Fraction

- Use the _____ of a decimal to determine the _____
- Simplify!
- If a decimal has a whole number before the decimal point, you will write a mixed number.

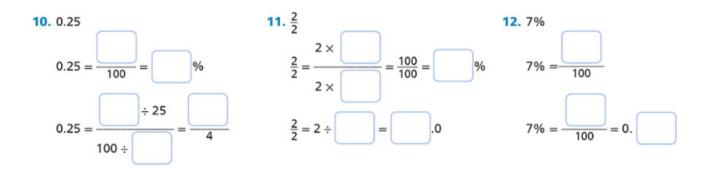
0.94 0.24 0.3 2.1

Goal #2: Write a Fraction as a Decimal



Relate Fractions, Decimals, and Percents

Fractions, decimals and percents are three ways to show parts of the



In 5–7, write each number in equivalent forms using the two other forms of notation: fraction, decimal, or percent.

5. 27%

6. 0.91

7. $\frac{6}{100}$

16. Jackson answered 23 out of 25 problems on a math test correctly. What percent of the problems did Jackson answer correctly?

Good Job 2

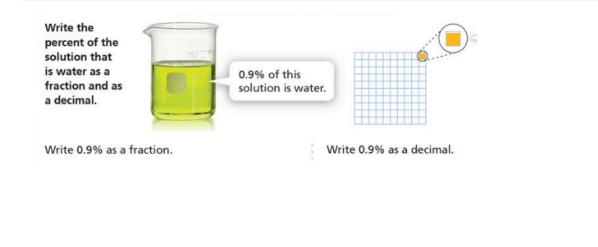
Lesson 6-3 Represent Percents Greater Than 100 or Less Than 1

Write 140% as a decimal and a fraction. _____ rules, just larger or smaller numbers!

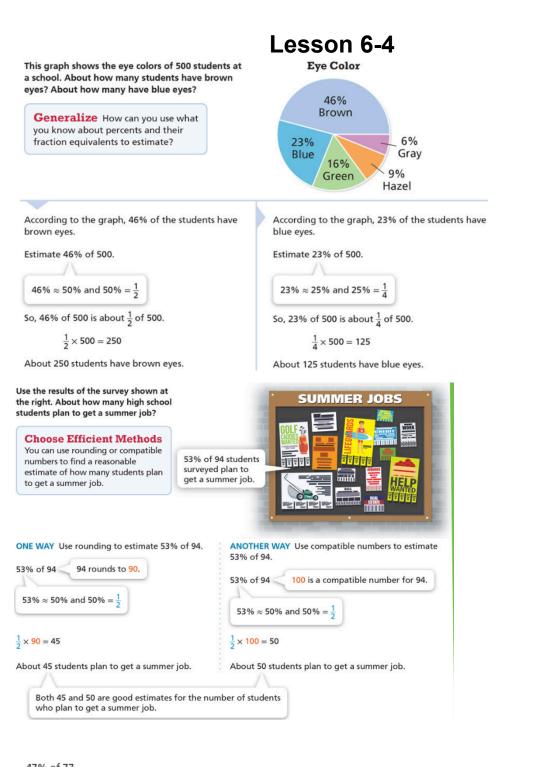
Fraction

Decimal

Try It! The area of a new movie theater is 225% of the area of the old theater. What is 225% as a fraction and as a decimal?



Try It!	Write each percent as a fraction and as a decimal.
a. $\frac{2}{5}\%$	b. 0.3%



Lesson 6-5 Find the Percent of a Number

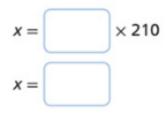
To find the percent of a number:

- 1. Convert the percent to a _____
- 2. Multiply the decimal by the _____

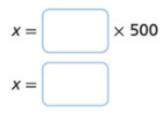


Write an equation	
x = 0.725 • 60	x represents 72.5% of 60. Multiply 72.5% by 60 to find x.
<i>x</i> = 43.5	
So, 43.5 is 72.5% o	of 60.
D'wavne plans to	wallpaper 43.5 square feet.

What is 5% of 210?



13. What is 8.2% of 500?



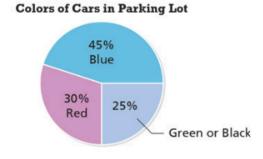
What is 8% of 35?

What is 25% of 80?

III 20-22, use the title graph.

There are 180 cars in a parking lot. The colors of the cars are represented in the circle graph.

20. How many blue cars are there?



21. How many red cars are there?

22. Choose Efficient Methods There are 27 more green cars than black cars in the parking lot. What percent of the cars in the parking lot are green? What percent are black?

The meal tax at a restaurant is 5.5%. What is the meal tax on a dinner that costs \$24?

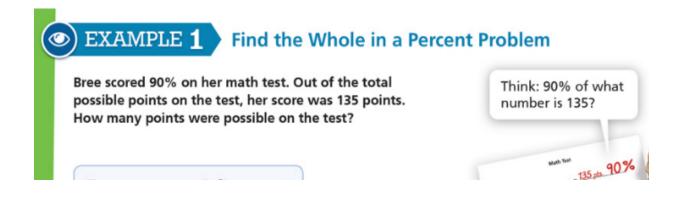


Lesson 6-6 Find the Whole Given a Part and the Percent

Percent Proportion: <u>percent</u> = <u>part</u> 100 whole

To solve these, think _____ over ____. Is=part Of=whole

This is set up the same way we did cross multiplication with ratios/rates





5. 40% of what number is 80?

10. 35% of what number is 91?

12. 87.5% of what number is 49?

13. What percent of 120 is 28.8?

14. What percent of 50 is 13?