

Name: _____

Date: _____

Class: _____

Percents Homework #2**Unit:** Unit Rates & Percents**Date Assigned:** November 21, 2019**Date Due:** **November 26, 2019 (Tue)**

Assignments	Self-Assessment	Points Earned
<p>Practice: Benchmark Percentages</p> <ul style="list-style-type: none"> • Complete the problems thoroughly. • Show all of your work. • Use appropriate labels and units. 	<input type="checkbox"/> I did excellent! <input type="checkbox"/> I did good. <input type="checkbox"/> I did okay. <input type="checkbox"/> I am having trouble understanding.	/ 2
<p>Fraction/Decimal/Fraction Additional Practice</p> <ul style="list-style-type: none"> • Complete the problems thoroughly. • Show all of your work. • Use appropriate labels and units. 	<input type="checkbox"/> I did excellent! <input type="checkbox"/> I did good. <input type="checkbox"/> I did okay. <input type="checkbox"/> I am having trouble understanding.	/ 2
<p>Khan Academy No Khan Academy HW. Please check your homepage for any missing PAST assignments and write a note to Ms.Noh if you complete past assignments, so that Ms.Noh can update your HW grades:</p>	<input type="checkbox"/> I did excellent! <input type="checkbox"/> I did good. <input type="checkbox"/> I did okay. <input type="checkbox"/> I am having trouble understanding.	N/A
<p>Lunchtime Extra Math Help every Tuesday, Thursday @ Room 405 12:25 - 12:55</p>	<input type="checkbox"/> I attended extra help this week. <input type="checkbox"/> I did not attend extra help this week but I want to sign up for next week. <input type="checkbox"/> I do not need extra help at the moment.	

Total points earned: _____

NAME _____ DATE _____ PERIOD _____



Practice

Benchmark Percentages

1. Respond to each question.
 - a. How can you find 50% of a number quickly in your head?
 - b. Andre lives 1.6 km from school. What is 50% of 1.6 km?
 - c. Diego lives $\frac{1}{2}$ mile from school. What is 50% of $\frac{1}{2}$ mile?

2. There is a 10% off sale on laptop computers. If someone saves \$35 on a laptop, what was its original cost? If you get stuck, consider using the table.

Savings (dollars)	Percentage
35	10
?	100

3. Explain how to calculate these mentally.
 - a. 15 is what percentage of 30?
 - b. 3 is what percentage of 12?
 - c. 6 is what percentage of 10?
4. Noah says that to find 20% of a number he divides the number by 5. For example, 20% of 60 is 12, because $60 \div 5 = 12$. Does Noah's method always work? Explain why or why not.

5. Diego has 75% of \$10. Noah has 25% of \$30. Diego thinks he has more money than Noah, but Noah thinks they have an equal amount of money. Who is right? Explain your reasoning. (Lesson 3-10)

6. Lin and Andre start walking toward each other at the same time from opposite ends of 22-mile walking trail. Lin walks at a speed of 2.5 miles per hour. Andre walks at a speed of 3 miles per hour.

Here is a table showing the distances traveled and how far apart Lin and Andre were over time. Use the table to find how much time passes before they meet. (Lesson 3-8)

Elapsed Time (hour)	Lin's Distance (miles)	Andre's Distance (miles)	Distance Apart (miles)
0	0	0	22
1	2.5	3	16.5
			0

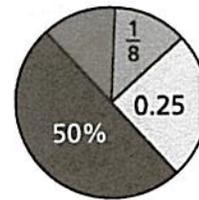
A **fraction** is a number that can describe parts of a whole.

If the fraction $\frac{7}{10}$ describes the shaded portion of a circle, then the whole circle has 10 equal parts and 7 of them are shaded.

A **decimal** can also describe parts of a whole.

The fraction $\frac{7}{10}$ can be written as the decimal 0.7. The fraction $\frac{85}{100}$ can be written as the decimal 0.85.

The diagram shows how Roscoe, Ariana, and Fujita shared a pizza. Roscoe ate 0.25 of the pizza, Ariana ate $\frac{1}{8}$ of the pizza, and Fujita ate 50% of the pizza.



1. Fill in the boxes to write 0.25 as a fraction and as a percent.

$$\text{Fraction: } 0.25 = \frac{\square}{100} = \frac{25 \div 25}{100 \div 25} = \frac{1}{\square}$$

$$\text{Percent: } 0.25 = \frac{25}{\square} = \square\%$$

2. Fill in the boxes to write $\frac{1}{8}$ as a decimal and as a percent.

$$\text{Decimal: } \frac{1}{8} = \frac{1 \times \square}{8 \times 12.5} = \frac{\square}{100} = \square$$

$$\text{Percent: } 0.125 = \frac{125}{\square} = \frac{125 \div 10}{\square \div 10} = \frac{\square}{100} = \square\%$$

3. Fill in the boxes to write 50% as a fraction and as a decimal.

$$\text{Fraction: } 50\% = \frac{\square}{100} = \frac{\square \div \square}{100 \div \square} = \frac{1}{\square}$$

$$\text{Decimal: } 50\% = \frac{50}{\square} = \square$$

On the Back!

4. Write 0.78 as a fraction and as a percent.



6-2 Additional Practice

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In 1–9, write each number in two equivalent forms as a fraction, a decimal, or a percent.

1. 0.24

2. $\frac{2}{100}$

3. 16%

4. 0.43

5. 18%

6. $\frac{1}{8}$

7. $\frac{1}{4}$

8. 5%

9. $\frac{3}{8}$

In 10–15, use the circle graphs.

10. Reasoning What decimal shows the combined portion of boys who like pop and country music?

11. What type of music did $\frac{1}{5}$ of the girls choose as their favorite?

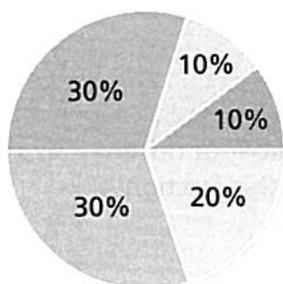
12. Which types of music are the favorites for the most boys? Write the percent of each as a fraction.

13. Which type of music is the least favorite music for the girls? What is that percent as a decimal?

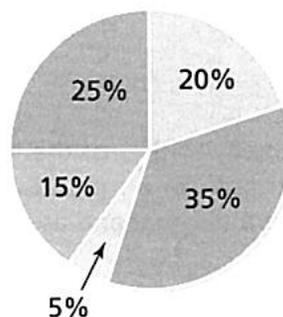
14. Which two types of the girls' favorite music combined represent 0.45? Write each percent as a fraction.

15. Which types of music are the boys' least favorite? Write each percent as a fraction and a decimal.

Boys' Favorite Music



Girls' Favorite Music



Country Pop Rock R&B Hip-Hop

