LESSON MAKER PRO

Number Form Match

Convert and compare fractions, decimals, and percents.

GRADE 6 · 6.N.1

6.N.1 "Read, write, and represent rational numbers expressed as integers, fractions, decimals, percents, and ratios; use these representations in real-world and mathematical situations. Use manipulatives and models (e.g...."

NAME _____ DATE _____

SAME AMOUNT, DIFFERENT FORM

Percent means parts out of 100. To change a fraction to a decimal, divide the numerator by the denominator. Multiply the decimal by 100 to write a percent, or rewrite numbers in the same form to compare them.

WORKED EXAMPLE

Write 3/5 as a decimal and a percent.

1. Divide: 3 ÷ 5 = 0.6.
2. Multiply by 100: 0.6 × 100 = 60.

Answer: 3/5 = 0.6 = 60%

PRACTICE 6 problems

1 Write 1/4 as a decimal and a percent.

ANSWER _____

2 Write 45% as a decimal and a fraction in simplest form.

ANSWER _____

3 Fill in <, >, or =: 0.8 ___ 7/10.

ANSWER _____

4 Fill in <, >, or =: 9/25 ___ 0.4.

ANSWER _____

5 Write 1 1/2 as a decimal and a percent.

ANSWER _____

6 Order these numbers from least to greatest: 25%, 0.3, 1/5.

ANSWER _____

APPLY IT Show your work

1 You completed 18 of 24 levels in a game. What fraction of the levels did you complete in simplest form? Write the same amount as a percent.

WORK SPACE

ANSWER _____

2 In a game, you completed 11/20 of the levels in World A and 58% of the levels in World B. Which world has the greater share completed, and by how many percentage points?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Order 1 1/8, 112%, 1.12, and 9/8 from least to greatest. Use < and =, then explain your order using decimals.

WORK SPACE AND ANSWER

ANSWER KEY # Number Form Match

GRADE 6 · 6.N.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 1/4 as a decimal and a percent.	**0.25 and 25%**
2	Write 45% as a decimal and a fraction in simplest form.	**0.45 and 9/20**
3	Fill in <, >, or =: 0.8 ___ 7/10.	**>**
4	Fill in <, >, or =: 9/25 ___ 0.4.	**<**
5	Write 1 1/2 as a decimal and a percent.	**1.5 and 150%**
6	Order these numbers from least to greatest: 25%, 0.3, 1/5.	**1/5, 25%, 0.3**

PART 2 · APPLY IT

1. **3/4 and 75%** Simplify 18/24 to 3/4. Divide 3 by 4 to get 0.75, or 75%.
2. **World B by 3 percentage points** Convert 11/20 to 55%. World B's 58% is 3 percentage points greater than 55%.

CHALLENGE

112% = 1.12 < 1 1/8 = 9/8. The first two numbers equal 1.12, and the last two equal 1.125.

For comparison items, accept the correct symbol. In the challenge, accept either order within each equal pair.