LESSON MAKER PRO

Decimal Fraction Match

Connect tenths and hundredths to fractions.

GRADE 4 · 4.NS.5.c

4.NS.5.c "Write the decimal and fraction equivalent for a given model.*"

NAME _____ DATE _____

PLACE VALUE PARTNERS

A decimal shows tenths or hundredths. Write a fraction with 10 or 100 as the denominator, then simplify if asked. For a decimal greater than 1, keep the whole number and change the decimal part to a fraction.

WORKED EXAMPLE

Write 0.68 as a fraction in simplest form.

1. 0.68 means 68 hundredths, so write 68/100.
2. Divide 68 and 100 by 4.
3. 68/100 = 17/25.

Answer: 17/25

PRACTICE 6 problems

1 Write 0.4 as a fraction with denominator 10.

ANSWER _____

2 Write 1.6 as a mixed number.

ANSWER _____

3 Write 37/100 as a decimal.

ANSWER _____

4 Write 3/4 as a decimal.

ANSWER _____

5 Write 0.09 as a fraction with denominator 100.

ANSWER _____

6 Write 2 35/100 as a decimal.

ANSWER _____

APPLY IT Show your work

1 At the skate park, Jada rode 0.75 mile. Write 0.75 as a fraction in simplest form.

WORK SPACE

ANSWER _____

2 A game designer measured a path that is 1 3/10 meters long. Write the length as a decimal.

WORK SPACE

ANSWER _____

3 Each entire bar below represents one whole. For Model A and Model B separately, write BOTH the fraction and decimal represented by its shaded part. Explain how the equal parts help you name each amount.

Model A



Model B



ANSWER _____

CHALLENGE One step up

A science club's water gauge shows 2.08 liters. Write this number as a mixed number with hundredths. Then simplify the fraction part.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Fraction Match

GRADE 4 · 4.NS.5.c

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 0.4 as a fraction with denominator 10.	**4/10**
2	Write 1.6 as a mixed number.	**1 6/10**
3	Write 37/100 as a decimal.	**0.37**
4	Write 3/4 as a decimal.	**0.75**
5	Write 0.09 as a fraction with denominator 100.	**9/100**
6	Write 2 35/100 as a decimal.	**2.35**

PART 2 · APPLY IT

1. **3/4** 0.75 is 75/100. Divide the numerator and denominator by 25 to get 3/4.
2. **1.3** Keep the whole number 1. Three tenths is 0.3, so the decimal is 1.3.
3. **Model A: 3/4 = 0.75. Model B: 6/10 = 0.6 (also 3/5 = 0.6).** A has 3 of 4 equal parts shaded: 3/4 = 75/100 = 0.75. B has 6 of 10 equal parts shaded: 6/10 = 0.6. One complete bar, not both bars together, is the whole for each model.

CHALLENGE

2 8/100, which simplifies to 2 2/25

Accept equivalent fractions when the problem does not name a required denominator or ask for simplest form. For the challenge, require both the hundredths form and the simplified mixed number.