LESSON MAKER PRO

Fraction Decimal Detectives

Connect fractions and decimals with place value.

GRADE 4 · MA.4.FR.1

MA.4.FR.1 "Develop an understanding of the relationship between different fractions and the relationship between fractions and decimals."

NAME _____ DATE _____

FRACTION-DECIMAL LINKS

Fractions with denominators of 10 and 100 match tenths and hundredths in decimals. To change another fraction to a decimal, make an equivalent fraction with a denominator of 10 or 100 when you can.

WORKED EXAMPLE

Write 3/5 as a decimal.

1. Make an equivalent fraction with a denominator of 10.
2. 3/5 = 6/10 because 3 x 2 = 6 and 5 x 2 = 10.
3. 6/10 means 6 tenths, or 0.6.

Answer: 0.6

PRACTICE 6 problems

1 Write 7/10 as a decimal.

ANSWER _____

2 Write 0.25 as a fraction in simplest form.

ANSWER _____

3 Which fraction is equal to 0.4? A. 4/10 B. 4/100 C. 40/10

ANSWER _____

4 Write 9/100 as a decimal.

ANSWER _____

5 Compare using <, >, or =: 3/4 ___ 0.7

ANSWER _____

6 Write 0.50 as a fraction in simplest form.

ANSWER _____

APPLY IT Show your work

1 In a dance game, 8 out of 10 moves were scored as perfect. What decimal part of the moves were scored as perfect?

WORK SPACE

ANSWER _____

2 At an arcade, Jalen earned 45 out of 100 possible energy points. Write this amount as a decimal and as a fraction in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Put these numbers in order from least to greatest: 0.19, 1/5, 3/10. Explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Decimal Detectives

GRADE 4 · MA.4.FR.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 7/10 as a decimal.	**0.7**
2	Write 0.25 as a fraction in simplest form.	**1/4**
3	Which fraction is equal to 0.4? A. 4/10 B. 4/100 C. 40/10	**A. 4/10**
4	Write 9/100 as a decimal.	**0.09**
5	Compare using <, >, or =: 3/4 ___ 0.7	**>**
6	Write 0.50 as a fraction in simplest form.	**1/2**

PART 2 · APPLY IT

1. **0.8** Write 8/10 as 8 tenths. Eight tenths is 0.8.
2. **0.45 and 9/20** Forty-five hundredths is 0.45. Simplify 45/100 by dividing the numerator and denominator by 5 to get 9/20.

CHALLENGE

0.19, 1/5, 3/10. Since 1/5 = 0.20 and 3/10 = 0.30, 0.19 < 0.20 < 0.30.

Accept equivalent fractions unless a problem specifically asks for simplest form. Accept decimals with extra ending zeros, such as 0.70 for 0.7.