LESSON MAKER PRO

Decimal Fraction Switch

Match tenths and hundredths to decimal notation.

GRADE 4 · 4.NR.5.2

4.NR.5.2 "Represent, read, and write fractions with denominators of 10 or 100 using decimal notation, and decimal numbers to the hundredths place as fractions, using concrete materials and drawings."

NAME _____ DATE _____

FRACTIONS AND DECIMALS

A fraction with a denominator of 10 can be written as a decimal with one digit after the decimal point. A fraction with a denominator of 100 can be written as a decimal with two digits after the decimal point. Equal parts in a model help you see how many tenths or hundredths are shaded.

WORKED EXAMPLE

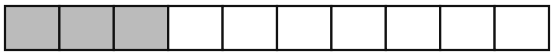
Write 47/100 as a decimal.

1. The denominator is 100, so write two digits after the decimal point.
2. Use 47 as the two digits.
3. Write 0.47.

Answer: 0.47

PRACTICE 6 problems

1 Use the shaded bar. Write the shaded amount as a fraction and as a decimal.



ANSWER _____

_____

2 Write 0.68 as a fraction with a denominator of 100.

ANSWER _____

3 Write 9/10 as a decimal.

ANSWER _____

4 Write 0.04 as a fraction with a denominator of 100.

ANSWER _____

5 Write 25/100 as a decimal.

ANSWER _____

6 Write 0.90 as a fraction with a denominator of 100.

ANSWER _____

APPLY IT Show your work

1 A game level is 0.35 complete. Write the completed part as a fraction with a denominator of 100.

WORK SPACE

ANSWER _____

2 A tablet battery is 8/10 charged. Write the battery charge as a decimal.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A jar is 0.6 full. Kai says this is 6/100. Is Kai correct? Explain, then write 0.6 as a fraction with a denominator of 10 and as a fraction with a denominator of 100.

WORK SPACE AND ANSWER

ANSWER KEY

Decimal Fraction Switch

GRADE 4 · 4.NR.5.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the shaded bar. Write the shaded amount as a fraction and as a decimal.	**3/10, 0.3**
2	Write 0.68 as a fraction with a denominator of 100.	**68/100**
3	Write 9/10 as a decimal.	**0.9**
4	Write 0.04 as a fraction with a denominator of 100.	**4/100**
5	Write 25/100 as a decimal.	**0.25**
6	Write 0.90 as a fraction with a denominator of 100.	**90/100**

PART 2 · APPLY IT

1. **35/100** The decimal has two digits after the decimal point, so it names hundredths. Write 35 as the numerator over 100.
2. **0.8** The denominator is 10, so the fraction names tenths. Write 8 in the tenths place.

CHALLENGE

No. 0.6 is 6/10, which is 60/100.

Accept equivalent decimal forms when they have the same value, such as 0.90 and 0.9. For the challenge, students should show that 6 tenths equals 60 hundredths.