

Decimal Fraction Match

Connect tenths and hundredths to decimal numbers.

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 _____

PLACE VALUE PARTNERS

A decimal has tenths in the first place after the decimal point and hundredths in the second place. Write tenths as a fraction with 10 on the bottom. Write hundredths as a fraction with 100 on the bottom.

WORKED EXAMPLE

Write $\frac{63}{100}$ as a decimal.

1. The denominator is 100, so write two digits after the decimal point.
2. Put 6 in the tenths place.
3. Put 3 in the hundredths place.

Answer: 0.63

PRACTICE 6 problems

- 1** Write 0.6 as a fraction with a denominator of 10.

ANSWER _____

- 2** Write $\frac{35}{100}$ as a decimal.

ANSWER _____

- 3** Write 0.09 as a fraction with a denominator of 100.

ANSWER _____

- 4** Write $\frac{8}{10}$ as a decimal.

ANSWER _____

- 5** Read 0.72. Write the number in words.

ANSWER _____

- 6** A hundred grid has 14 shaded squares. Write the shaded part as a fraction with a denominator of 100 and as a decimal.

ANSWER _____

APPLY IT Show your work

- 1** At robotics club, 28 out of 100 building tiles are blue. Write the blue part as a fraction with a denominator of 100 and as a decimal.

WORK SPACE

ANSWER _____

- 2** A music app shows that 0.9 of a song has downloaded. Write 0.9 as a fraction with a denominator of 10.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Noah says that 0.5 equals $\frac{5}{100}$. Is Noah correct? Explain and write 0.5 as a fraction with a denominator of 10 and as a fraction with a denominator of 100.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write 0.6 as a fraction with a denominator of 10.	6/10
2	Write 35/100 as a decimal.	0.35
3	Write 0.09 as a fraction with a denominator of 100.	9/100
4	Write 8/10 as a decimal.	0.8
5	Read 0.72. Write the number in words.	seventy-two hundredths
6	A hundred grid has 14 shaded squares. Write the shaded part as a fraction with a denominator of 100 and as a decimal.	14/100, 0.14

PART 2 • APPLY IT

1. **28/100, 0.28** There are 28 blue tiles out of 100, so the fraction is 28/100. A fraction with 100 on the bottom uses two decimal places, so it is 0.28.
2. **9/10** The 9 is in the tenths place. Therefore, 0.9 means 9 tenths, or 9/10.

CHALLENGE

No. 0.5 = 5/10 = 50/100.

Accept leading zeros in decimals, such as 0.09. For the challenge, accept an explanation that 0.5 means 5 tenths, not 5 hundredths.