

Decimal Switch-Up

Turn familiar fractions into decimals through hundredths.

GRADE 4 • 4.NS.5.a

4.NS.5.a "Represent fractions (proper or improper) and/or mixed numbers as decimals through hundredths, using multiple representations, limited to halves, fourths, fifths, tenths, and hundredths.*"

NAME _____

DATE _____

FRACTION TO DECIMAL

A decimal can show tenths and hundredths. Rewrite halves, fourths, and fifths as tenths or hundredths, then place any whole-number part to the left of the decimal point.

WORKED EXAMPLE

Write $1 \frac{3}{5}$ as a decimal.

1. Split the mixed number: $1 \frac{3}{5} = 1 + \frac{3}{5}$.
2. Change fifths to tenths: $\frac{3}{5} = \frac{6}{10}$.
3. Write $\frac{6}{10}$ as 0.6.
4. Add: $1 + 0.6 = 1.6$.

Answer: 1.6

PRACTICE 6 problems

1 Write $\frac{1}{2}$ as a decimal.

ANSWER _____

2 Write $\frac{3}{4}$ as a decimal.

ANSWER _____

3 Write $\frac{7}{10}$ as a decimal.

ANSWER _____

4 Write $\frac{19}{100}$ as a decimal.

ANSWER _____

5 Write $\frac{6}{5}$ as a decimal.

ANSWER _____

6 Write $2 \frac{1}{4}$ as a decimal.

ANSWER _____

APPLY IT Show your work

- 1** A video game update uses $1\frac{4}{5}$ GB of storage. Write the amount of storage as a decimal.

WORK SPACE

ANSWER _____

- 2** A class robot traveled $\frac{37}{100}$ kilometer during a test. Write the distance as a decimal.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Write $\frac{17}{4}$ as a decimal. Explain how you used fourths and whole numbers.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{1}{2}$ as a decimal.	0.5
2	Write $\frac{3}{4}$ as a decimal.	0.75
3	Write $\frac{7}{10}$ as a decimal.	0.7
4	Write $\frac{19}{100}$ as a decimal.	0.19
5	Write $\frac{6}{5}$ as a decimal.	1.2
6	Write $2\frac{1}{4}$ as a decimal.	2.25

PART 2 • APPLY IT

1. **1.8 GB** Change $\frac{4}{5}$ to $\frac{8}{10}$, or 0.8. Then combine 1 and 0.8 to get 1.8 GB.
2. **0.37 kilometer** Thirty-seven hundredths is written with 3 tenths and 7 hundredths. The decimal is 0.37 kilometer.

CHALLENGE

4.25. Since $\frac{16}{4} = 4$ and $\frac{1}{4} = 0.25$, $\frac{17}{4} = 4.25$.

Accept equivalent decimal forms, such as 0.50 for 0.5. A missing leading zero is acceptable if the decimal place value is clear.