

Decimal Place Power

Write tenths and hundredths as decimals.

GRADE 4 • NY-4.NF.6

NY-4.NF.6 "Use decimal notation for fractions with denominators 10 or 100."

NAME _____

DATE _____

TENTHS AND HUNDREDTHS

Fractions with a denominator of 10 can be written with one digit after the decimal point. Fractions with a denominator of 100 can be written with two digits after the decimal point. Use a zero to hold an empty place, such as $2/100 = 0.02$.

WORKED EXAMPLE

Write $45/100$ as a decimal.

1. $45/100$ means 45 hundredths.
2. Put 4 in the tenths place and 5 in the hundredths place.
3. Write a zero before the decimal because the fraction is less than 1.

Answer: 0.45

PRACTICE 6 problems

1 Write $6/10$ as a decimal.

ANSWER _____

2 Write $34/100$ as a decimal.

ANSWER _____

3 Write 0.8 as a fraction with a denominator of 10.

ANSWER _____

4 Write 0.09 as a fraction with a denominator of 100.

ANSWER _____

5 Write $72/100$ as a decimal.

ANSWER _____

6 Write each fraction as a decimal: $4/10$ and $13/100$.

ANSWER _____

APPLY IT Show your work

- 1** Jordan has completed $\frac{68}{100}$ of a reading challenge. Write the part Jordan completed as a decimal.

WORK SPACE

ANSWER _____

- 2** In a game, Ava fills 0.9 of her badge meter. Write 0.9 as a fraction with a denominator of 10.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A craft kit has $\frac{5}{10}$ meter of blue ribbon and $\frac{23}{100}$ meter of yellow ribbon. Write the total length as a decimal. Explain how you changed the tenths to hundredths before adding.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{6}{10}$ as a decimal.	0.6
2	Write $\frac{34}{100}$ as a decimal.	0.34
3	Write 0.8 as a fraction with a denominator of 10.	$\frac{8}{10}$
4	Write 0.09 as a fraction with a denominator of 100.	$\frac{9}{100}$
5	Write $\frac{72}{100}$ as a decimal.	0.72
6	Write each fraction as a decimal: $\frac{4}{10}$ and $\frac{13}{100}$.	0.4 and 0.13

PART 2 • APPLY IT

1. **0.68** $\frac{68}{100}$ means 68 hundredths. Write 6 in the tenths place and 8 in the hundredths place.
2. **$\frac{9}{10}$** The 9 is in the tenths place. So 0.9 means 9 tenths.

CHALLENGE

0.73, because $\frac{5}{10} = \frac{50}{100}$ and $\frac{50}{100} + \frac{23}{100} = \frac{73}{100}$.

Accept equivalent decimal forms with trailing zeros, such as 0.60 for 0.6. For fraction items, require the denominator named in the question.