LESSON MAKER PRO

Decimal Point Paths

Read, write, and use tenths and hundredths.

GRADE 4 · 4.NF.C.6

CCSS.Math.Content.4.NF.C.6 "Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as 62/100; describe a length as 0.62 meters; locate 0.62 on a number line diagram."

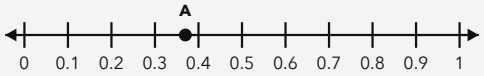
NAME _____ DATE _____

FRACTIONS AS 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.

WORKED EXAMPLE

Point A is marked on the number line. Write its value as a decimal and as a fraction with a denominator of 100.



1. Point A is at 37 hundredths.
2. Write 37 hundredths as 0.37.
3. Write 37 hundredths as 37/100.

Answer: 0.37 and 37/100

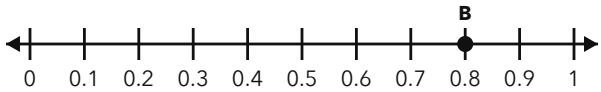
PRACTICE 6 problems

1 The shaded part of the bar shows a fraction. Write the fraction as a decimal.



ANSWER _____

2 Point B is marked on the number line. Write its value as a decimal.



ANSWER _____

3 Write 45/100 as a decimal.

ANSWER _____

4 Write 9/10 as a decimal.

ANSWER _____

5 Write 0.72 as a fraction with a denominator of 100.

ANSWER _____

6 Write 0.3 as a fraction with a denominator of 10.

ANSWER _____

APPLY IT Show your work

1 Maya cuts a 73/100 meter piece of ribbon for a craft project. Write the ribbon length in decimal notation.

WORK SPACE

ANSWER _____

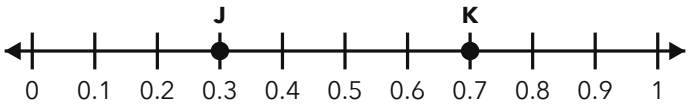
2 A remote-control car travels 0.46 kilometer during a race. Write this distance as a fraction with a denominator of 100.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Points J and K are marked on the number line. A point halfway between J and K would have what decimal value? Write the value as a fraction with a denominator of 10. Explain how you know.



WORK SPACE AND ANSWER

ANSWER KEY

Decimal Point Paths

GRADE 4 · 4.NF.C.6

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	The shaded part of the bar shows a fraction. Write the fraction as a decimal.	**0.6**
2	Point B is marked on the number line. Write its value as a decimal.	**0.8**
3	Write 45/100 as a decimal.	**0.45**
4	Write 9/10 as a decimal.	**0.9**
5	Write 0.72 as a fraction with a denominator of 100.	**72/100**
6	Write 0.3 as a fraction with a denominator of 10.	**3/10**

PART 2 · APPLY IT

1. **0.73 meter** A denominator of 100 means the decimal has two digits after the decimal point. Write 73 hundredths as 0.73.
2. **46/100 kilometer** The decimal 0.46 means 46 hundredths. Write it as 46/100.

CHALLENGE

0.5 and 5/10. The midpoint between 0.3 and 0.7 is 0.5, which is 5 tenths.

Accept equivalent fraction forms when they have a denominator of 10 or 100. For the challenge, accept a clear explanation that the midpoint is 0.5.