LESSON MAKER PRO

Fraction Decimal Match

Use models and place value to compare amounts.

GRADE 5 · 5.N.1

5.N.1 "Read, write, represent, and compare fractions and decimals; recognize and write equivalent fractions; convert between fractions and decimals; use fractions and decimals in real-world and mathematical situations..."

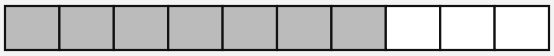
NAME _____ DATE _____

MAKE THE FORMS MATCH

A fraction with a denominator of 10, 100, or 1,000 can be written as a decimal using place value. For other fractions, make an equivalent fraction with one of those denominators when you can. To compare a fraction and a decimal, write them in the same form first.

WORKED EXAMPLE

Look at the fraction bar. Is its value greater than 0.65?

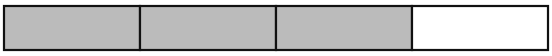


1. The bar shows 7/10.
2. Write 7/10 as 0.7, or 0.70.
3. Compare: 0.70 > 0.65.

Answer: Yes, the bar's value is greater than 0.65.

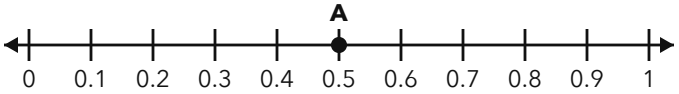
PRACTICE 6 problems

1 Look at the fraction bar. Write <, >, or = to compare its value with 0.8.



ANSWER _____

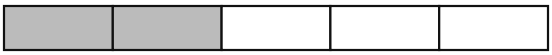
2 Write the value of point A as a decimal and as a fraction in simplest form.



ANSWER _____

_____

3 Look at the fraction bar. Write its value as a decimal.



ANSWER _____

4 Write <, >, or =: 0.125 ___ 1/8

ANSWER _____

5 Write 9/20 as a decimal.

ANSWER _____

6 Order 0.9, 4/5, and 0.85 from least to greatest.

ANSWER _____

APPLY IT Show your work

1 Maya finished 3/5 of a game level. Leo finished 0.58 of the same level. Who finished more, and by how much of the level?

WORK SPACE

ANSWER _____

2 Ari rode 1 1/4 miles on a bike path. Sam rode 1.3 miles. Who rode farther, and by how many miles?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Fill in the blank with a whole number: 0.45 < ___/40 < 0.5. Explain your choice in one sentence.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Decimal Match

GRADE 5 · 5.N.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at the fraction bar. Write <, >, or = to compare its value with 0.8.	**<**
2	Write the value of point A as a decimal and as a fraction in simplest form.	**0.5 and 1/2**
3	Look at the fraction bar. Write its value as a decimal.	**0.4**
4	Write <, >, or =: 0.125 ___ 1/8	**=**
5	Write 9/20 as a decimal.	**0.45**
6	Order 0.9, 4/5, and 0.85 from least to greatest.	**4/5, 0.85, 0.9**

PART 2 · APPLY IT

1. **Maya, by 0.02 of the level.** Convert 3/5 to 0.6. Then subtract 0.60 - 0.58 = 0.02.
2. **Sam, by 0.05 mile.** Convert 1 1/4 to 1.25. Then subtract 1.30 - 1.25 = 0.05 mile.

CHALLENGE

19; 0.45 = 18/40 and 0.5 = 20/40, so 19/40 is between them.

For comparison items, check that students compare the values, not just the digits. In the challenge, an equivalent decimal explanation using 19/40 = 0.475 is also correct.