LESSON MAKER PRO

Decimal Detective

Read, write, and compare decimal fractions.

GRADE 4 · 4.NF.C

CCSS.Math.Content.4.NF.C "Understand decimal notation for fractions, and compare decimal fractions."

NAME _____ DATE _____

PLACE VALUE CLUES

Decimal fractions use tenths and hundredths. When you compare decimals, line up the decimal points and write a zero in an empty place value if needed.

WORKED EXAMPLE

Which is greater, 0.37 or 0.4?

1. Write 0.4 as 0.40.
2. Compare the hundredths: 37 hundredths and 40 hundredths.
3. Since 40 hundredths is greater, 0.4 is greater.

Answer: 0.4 > 0.37

PRACTICE 6 problems

1 Write 7/10 as a decimal.

ANSWER _____

2 Write 0.56 as a fraction with denominator 100.

ANSWER _____

3 Use <, >, or =. 0.09 ___ 0.9

ANSWER _____

4 Use <, >, or =. 0.62 ___ 0.60

ANSWER _____

5 Write these decimals from least to greatest: 0.18, 0.81, 0.1

ANSWER _____

6 A decimal has 5 tenths and 3 hundredths. Write the decimal.

ANSWER _____

APPLY IT Show your work

1 At the skate park, Maya rode 0.65 mile on her scooter. Andre rode 0.6 mile. Who rode farther?

WORK SPACE

ANSWER _____

2 Use the table. Which game loaded fastest?

GAME LOADING TIMES

Game	Minutes
Sky Race	0.81
Maze Dash	0.18
Robot Run	0.51

WORK SPACE

ANSWER _____

CHALLENGE One step up

Jordan says 0.5 is less than 0.47 because 5 is less than 47. Is Jordan correct? Explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 7/10 as a decimal.	**0.7**
2	Write 0.56 as a fraction with denominator 100.	**56/100**
3	Use <, >, or =. 0.09 ___ 0.9	**0.09 < 0.9**
4	Use <, >, or =. 0.62 ___ 0.60	**0.62 > 0.60**
5	Write these decimals from least to greatest: 0.18, 0.81, 0.1	**0.1, 0.18, 0.81**
6	A decimal has 5 tenths and 3 hundredths. Write the decimal.	**0.53**

PART 2 · APPLY IT

1. **Maya rode farther.** Write Andre's distance as 0.60. Since 0.65 > 0.60, Maya rode farther.
2. **Maze Dash loaded fastest.** The fastest loading time is the smallest decimal. Of 0.81, 0.18, and 0.51, 0.18 is smallest.

CHALLENGE

Jordan is not correct. 0.5 = 0.50, and 0.50 > 0.47.

Accept decimals with or without a leading zero, such as .7 for 0.7. For problem 2, require 56/100 because the prompt specifies a denominator of 100.