LESSON MAKER PRO

Decimal Decisions

Compare parts of the same whole.

GRADE 4 · 4.NF.C.19

4.NF.C.19 "Use visual models and reasoning to compare two decimals to hundredths (referring to the same whole), recording comparisons using symbols >, =, or <, and justifying the conclusions."

NAME _____ DATE _____

COMPARE BY PLACE

Use a place-value chart to compare decimals that refer to the same whole. Compare the tenths first. If they match, compare the hundredths.

WORKED EXAMPLE

Compare 0.46 and 0.49.

PLACE-VALUE CHART

Decimal	Tenths	Hundredths
0.46	4	6
0.49	4	9

1. Both numbers have 4 tenths.
2. 6 hundredths is less than 9 hundredths.

Answer: 0.46 < 0.49

PRACTICE 4 problems

1 Compare: 0.34 ___ 0.37

ANSWER _____

2 Compare: 0.5 ___ 0.50

ANSWER _____

3 Compare: 0.08 ___ 0.1

ANSWER _____

4 Compare: 0.72 ___ 0.69. Explain using place value.

ANSWER _____

APPLY IT Show your work

1 Kai and Jo have equal-sized power bars in a game. Whose bar is fuller? Write a comparison.

Kai: 0.70



Jo: 0.60



ANSWER _____

2 Maya and Dev traveled on the same 1-mile trail. Who went farther? Write a comparison.

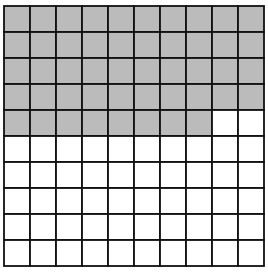
MILES TRAVELED

Rider	Tenths	Hundredths
Maya	6	2
Dev	5	9

ANSWER _____

CHALLENGE One step up

The grid shows 0.48 of a game level. Nia says 0.48 > 0.5 because 48 > 5. Is she right? Write the correct comparison and explain using squares.



WORK SPACE AND ANSWER

ANSWER KEY

Decimal Decisions

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Compare: 0.34 ___ 0.37	**0.34 < 0.37**
2	Compare: 0.5 ___ 0.50	**0.5 = 0.50**
3	Compare: 0.08 ___ 0.1	**0.08 < 0.1**
4	Compare: 0.72 ___ 0.69. Explain using place value.	**0.72 > 0.69. Seven tenths is greater than six tenths.**

PART 2 · APPLY IT

1. **Kai's bar is fuller. 0.70 > 0.60.** The bars are the same size. Seven shaded tenths is greater than six shaded tenths.
2. **Maya went farther. 0.62 > 0.59.** Maya traveled 0.62 mile, and Dev traveled 0.59 mile. Six tenths is greater than five tenths.

CHALLENGE

No. 0.48 < 0.5. The grid has 48 of 100 squares shaded, but 0.5 would shade 50 of 100 squares.

Accept equivalent explanations that compare tenths or hundredths of the same whole.