LESSON MAKER PRO

Rational Number Race

Compare, match, and order rational numbers.

GRADE 6 · 6.NS.1.e

6.NS.1.e "Use multiple strategies (e.g., benchmarks, number line, equivalency) to compare and order no more than four positive rational numbers expressed as fractions (proper or improper), mixed numbers, decimals..."

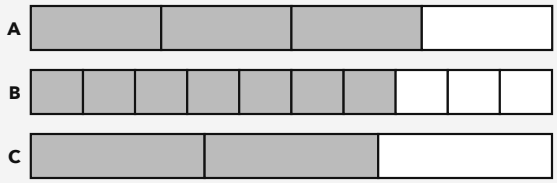
NAME _____ DATE _____

COMPARE SMART

Use a common form or compare locations on a number line. Then check that every value is in the requested order.

WORKED EXAMPLE

The fraction bars show three amounts. Order A, B, and C from least to greatest.



1. C shows 2/3, and B shows 7/10.
2. 2/3 < 7/10 because 20/30 < 21/30.
3. B is less than A because 70/100 < 75/100.

Answer: C, B, A

PRACTICE 4 problems

1 Order from least to greatest: 0.625, 5/8, 61%.

ANSWER _____

2 Order from least to greatest: 1 1/4, 1.2, 125%, 6/5.

ANSWER _____

3 Order from greatest to least: 7/12, 0.58, 60%, 5/8.

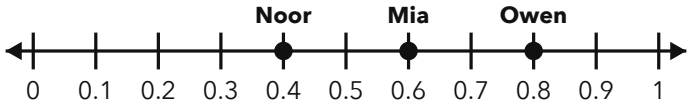
ANSWER _____

4 Write <, >, or =. Then show one comparison method: 11/12 ___ 0.91

ANSWER _____

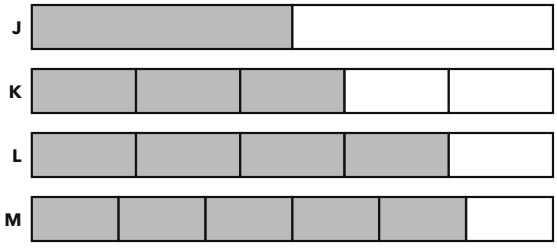
APPLY IT Show your work

1 A gaming app tracks the part of a quest each player has finished. The number line shows each player's progress. List the players from least to greatest progress.



ANSWER _____

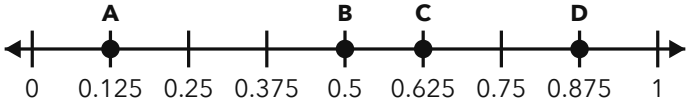
2 At robotics club, four teams charged their tablets to the amounts shown. Order the teams from greatest to least charge.



ANSWER _____

CHALLENGE One step up

Points A through D hold the cards 1/8, 50%, 5/8, and 0.875. Match each card to a point. Then list the points from least to greatest.



WORK SPACE AND ANSWER

ANSWER KEY # Rational Number Race

GRADE 6 · 6.NS.1.e

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Order from least to greatest: 0.625, 5/8, 61%.	**61%, 0.625 = 5/8**
2	Order from least to greatest: 1 1/4, 1.2, 125%, 6/5.	**1.2 = 6/5 < 1 1/4 = 125%**
3	Order from greatest to least: 7/12, 0.58, 60%, 5/8.	**5/8, 60%, 7/12, 0.58**
4	Write <, >, or =. Then show one comparison method: 11/12 ___ 0.91	**11/12 > 0.91; 11/12 = 1100/1200 and 0.91 = 1092/1200**

PART 2 · APPLY IT

1. **Noor, Mia, Owen** The points are at 0.4, 0.6, and 0.8. Read from left to right.
2. **M, L, K, J** The bars show 5/6, 4/5, 3/5, and 1/2. Compare the shaded parts.

CHALLENGE

A = 1/8, B = 50%, C = 5/8, D = 0.875; A, B, C, D

Accept equivalent forms and any correct common-denominator, decimal, percent, benchmark, or number-line justification. In Problem 4, a correct cross-product comparison is also acceptable.