LESSON MAKER PRO

Fraction Lineup

Compare numerators to place fractions in order.

GRADE 4 · 4.NS.3.a

4.NS.3.a "Compare and order no more than four fractions (proper or improper), and/or mixed numbers, with like denominators by comparing the number of parts (numerators) using fractions with denominators of 12 or less (e.g., 15 < 35)..."

NAME _____ DATE _____

SAME DENOMINATOR, SAME-SIZED PARTS

When fractions have the same denominator, the parts are the same size. A greater numerator means more parts, so it names a greater fraction. For mixed numbers, compare the whole numbers first, then compare the fractional parts if needed.

WORKED EXAMPLE

Order 16/10, 12/10, and 19/10 from least to greatest.

1. All three fractions have denominator 10.
2. Compare the numerators: 12, 16, and 19.
3. The least numerator is 12, then 16, then 19.

Answer: 12/10 < 16/10 < 19/10

PRACTICE 6 problems

1 Write <, >, or =. 2/6 ___ 5/6

ANSWER _____

2 Order 4/9, 1/9, and 7/9 from least to greatest.

ANSWER _____

3 Write <, >, or =. 11/8 ___ 9/8

ANSWER _____

4 Write <, >, or =. 3 2/7 ___ 3 5/7

ANSWER _____

5 Order 2 3/4, 1 3/4, and 2 1/4 from greatest to least.

ANSWER _____

6 Write <, >, or =. Then explain why. 13/12 ___ 1 1/12

ANSWER _____

APPLY IT Show your work

1 In a coding game, Nia completed 3/8 of a bonus level, Omar completed 7/8, and Priya completed 5/8. Order the students' completed parts from least to greatest.

WORK SPACE

ANSWER _____

2 At a bike skills event, Jalen rode 1 4/11 miles, Rosa rode 2 1/11 miles, and Theo rode 2 8/11 miles. Order the distances from greatest to least.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Order 9/5, 1 4/5, 2 1/5, and 2 3/5 from least to greatest. Include = if two numbers are the same. Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Lineup

GRADE 4 · 4.NS.3.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write <, >, or =. 2/6 ___ 5/6	**2/6 < 5/6**
2	Order 4/9, 1/9, and 7/9 from least to greatest.	**1/9 < 4/9 < 7/9**
3	Write <, >, or =. 11/8 ___ 9/8	**11/8 > 9/8**
4	Write <, >, or =. 3 2/7 ___ 3 5/7	**3 2/7 < 3 5/7**
5	Order 2 3/4, 1 3/4, and 2 1/4 from greatest to least.	**2 3/4 > 2 1/4 > 1 3/4**
6	Write <, >, or =. Then explain why. 13/12 ___ 1 1/12	**13/12 = 1 1/12 because 13/12 is 1 whole and 1/12.**

PART 2 · APPLY IT

1. **Nia, Priya, Omar. 3/8 < 5/8 < 7/8.** The denominators are all 8, so compare 3, 5, and 7. The order from least to greatest is 3/8, 5/8, 7/8.
2. **Theo, Rosa, Jalen. 2 8/11 > 2 1/11 > 1 4/11.** Distances with 2 whole miles are greater than the distance with 1 whole mile. Then compare 8/11 and 1/11.

CHALLENGE

9/5 = 1 4/5 < 2 1/5 < 2 3/5. 9/5 is equal to 1 4/5 because 5/5 makes 1 whole, with 4/5 left.

Accept comparison statements written with words instead of symbols when the order is correct. For the challenge, accept an explanation that correctly changes 9/5 to 1 4/5 or shows that 9/5 equals 1 4/5.