LESSON MAKER PRO

# Fraction Rank-Up

*Compare and order fractions using smart strategies.*

**GRADE 5 · 5.NR.3.2**

**5.NR.3.2** "Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies."

NAME _____ DATE _____

## CHOOSE A COMPARISON TOOL

You can compare fractions by using a benchmark such as 1/2 or 1, or by renaming them with a common denominator. When you order fractions, write them from least to greatest or greatest to least as asked.

**WORKED EXAMPLE**

Compare 8/13 and 7/15.

1. Find a common denominator: 13 x 15 = 195.
2. Rename 8/13 as 120/195.
3. Rename 7/15 as 91/195.
4. Compare the numerators: 120 is greater than 91.

**Answer: 8/13 > 7/15**

## PRACTICE 6 problems

**1** Compare 3/5 and 4/9. Write <, >, or =.

**ANSWER** _____

**2** Use the fraction bars if helpful. Order 1/2, 5/6, and 3/4 from least to greatest.

**1/2**



**5/6**



**3/4**



**ANSWER** _____

**3** Compare 11/12 and 5/9. Write <, >, or =.

**ANSWER** _____

**4** Order 2/3, 3/5, and 9/10 from greatest to least.

**ANSWER** _____

**5** Compare 9/10 and 11/12. Write <, >, or =.

**ANSWER** _____

**6** Order 4/9, 5/6, and 11/12 from least to greatest.

**ANSWER** _____

## APPLY IT Show your work

**1** A podcast club tracks the part of a series each student has finished. Use the table to order the students' fractions from least to greatest.

**PODCAST SERIES FINISHED**

| Student | Part Finished |
|---|---|
| Ava | 3/5 |
| Miles | 4/9 |
| Noor | 5/6 |

**ANSWER** _____

**2** Three tablets have the same total storage capacity. Tablet A is 3/4 full, Tablet B is 5/6 full, and Tablet C is 4/9 full. Which tablet has the most free storage?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Without finding a common denominator, order 11/12, 9/10, and 5/6 from greatest to least. Explain how the parts missing from 1 help you decide.

WORK SPACE AND ANSWER

ANSWER KEY

# Fraction Rank-Up

GRADE 5 · 5.NR.3.2

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Compare 3/5 and 4/9. Write <, >, or =. | **3/5 > 4/9** |
| 2 | Use the fraction bars if helpful. Order 1/2, 5/6, and 3/4 from least to greatest. | **1/2 < 3/4 < 5/6** |
| 3 | Compare 11/12 and 5/9. Write <, >, or =. | **11/12 > 5/9** |
| 4 | Order 2/3, 3/5, and 9/10 from greatest to least. | **9/10 > 2/3 > 3/5** |
| 5 | Compare 9/10 and 11/12. Write <, >, or =. | **9/10 < 11/12** |
| 6 | Order 4/9, 5/6, and 11/12 from least to greatest. | **4/9 < 5/6 < 11/12** |

## PART 2 · APPLY IT

1. **4/9 < 3/5 < 5/6** Compare the three fractions using common denominators or benchmarks. Miles finished the least, then Ava, then Noor.
2. **Tablet C** Because all three tablets have the same total capacity, compare their free fractions: A has 1/4 free, B has 1/6 free, and C has 5/9 free. Since 5/9 > 1/4 > 1/6, Tablet C has the most free storage.

## CHALLENGE

**11/12 > 9/10 > 5/6. The missing parts are 1/12, 1/10, and 1/6. A smaller missing part means the fraction is closer to 1, so it is greater.**

Accept equivalent comparison reasoning, including benchmarks, common denominators, or comparing how far each fraction is from 1. For ordered answers, accept commas in place of inequality symbols when the order is correct.