

# Fraction Lineup

Compare and order fractions with matching denominators.

**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-SIZE PARTS

Like denominators mean the parts are the same size. Compare the numerators, because a greater numerator means more same-size parts. An improper fraction can be greater than 1.

## WORKED EXAMPLE

Order  $13/11$ ,  $4/11$ , and  $9/11$  from least to greatest.

1. All three fractions have denominator 11.
2. Compare the numerators:  $4 < 9 < 13$ .
3. Keep denominator 11 in each fraction.

**Answer:  $4/11 < 9/11 < 13/11$**

## PRACTICE 6 problems

**1** Write  $<$ ,  $>$ , or  $=$ .  $3/8$  \_\_\_\_  $7/8$

**ANSWER** \_\_\_\_\_

**2** Order  $5/6$ ,  $1/6$ , and  $8/6$  from least to greatest.

**ANSWER** \_\_\_\_\_

**3** Write  $<$ ,  $>$ , or  $=$ .  $10/12$  \_\_\_\_  $2/12$

**ANSWER** \_\_\_\_\_

**4** Order  $12/10$ ,  $6/10$ , and  $1/10$  from greatest to least.

**ANSWER** \_\_\_\_\_

**5** Write  $<$ ,  $>$ , or  $=$ .  $7/3$  \_\_\_\_  $10/3$

**ANSWER** \_\_\_\_\_

**6** Order  $2/5$ ,  $5/5$ ,  $12/5$ , and  $15/5$  from least to greatest.

**ANSWER** \_\_\_\_\_

## APPLY IT Show your work

- 1** Three students track the parts of a 12-song playlist they have practiced. Mia practiced  $\frac{3}{12}$ , Owen practiced  $\frac{8}{12}$ , and Priya practiced  $\frac{10}{12}$ . Order the amounts from least to greatest.

WORK SPACE

ANSWER \_\_\_\_\_

- 2** During a trail challenge, Kai walked  $1\frac{2}{7}$  miles, Rowan walked  $2\frac{3}{7}$  miles, and Sam walked  $1\frac{6}{7}$  miles. Who walked the farthest? Order the distances from greatest to least.

WORK SPACE

ANSWER \_\_\_\_\_

## CHALLENGE One step up

### CHALLENGE

Order  $2\frac{5}{8}$ ,  $1\frac{7}{8}$ ,  $3\frac{1}{8}$ , and  $2\frac{2}{8}$  from least to greatest. Write one sentence explaining your reasoning.

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## PART 1 • PRACTICE

| # | PROBLEM                                                           | ANSWER                                               |
|---|-------------------------------------------------------------------|------------------------------------------------------|
| 1 | Write $<$ , $>$ , or $=$ . $3/8$ ____ $7/8$                       | <b><math>3/8 &lt; 7/8</math></b>                     |
| 2 | Order $5/6$ , $1/6$ , and $8/6$ from least to greatest.           | <b><math>1/6 &lt; 5/6 &lt; 8/6</math></b>            |
| 3 | Write $<$ , $>$ , or $=$ . $10/12$ ____ $2/12$                    | <b><math>10/12 &gt; 2/12</math></b>                  |
| 4 | Order $12/10$ , $6/10$ , and $1/10$ from greatest to least.       | <b><math>12/10 &gt; 6/10 &gt; 1/10</math></b>        |
| 5 | Write $<$ , $>$ , or $=$ . $7/3$ ____ $10/3$                      | <b><math>7/3 &lt; 10/3</math></b>                    |
| 6 | Order $2/5$ , $5/5$ , $12/5$ , and $15/5$ from least to greatest. | <b><math>2/5 &lt; 5/5 &lt; 12/5 &lt; 15/5</math></b> |

## PART 2 • APPLY IT

- $3/12 < 8/12 < 10/12$**  All the fractions have denominator 12. Compare the numerators: 3, 8, and 10.
- Rowan walked the farthest.  $2 \frac{3}{7} > 1 \frac{6}{7} > 1 \frac{2}{7}$**  Compare the whole-number parts first. Rowan has 2 whole miles, while Kai and Sam each have 1 whole mile; then compare  $6/7$  and  $2/7$ .

## CHALLENGE

**$1 \frac{7}{8} < 2 \frac{2}{8} < 2 \frac{5}{8} < 3 \frac{1}{8}$ . I compared the whole-number parts first, then compared the numerators when the whole-number parts matched.**

Accept correct comparison symbols, ordered lists, or equivalent fraction forms. For the challenge, accept an explanation that compares whole-number parts first and then compares numerators for mixed numbers with matching whole-number parts.