

# Varied Fluency

## Step 5: Compare and Order by Denominator

### National Curriculum Objectives:

Mathematics Year 6: (6F2) [Use common factors to simplify fractions; use common multiples to express fractions in the same denomination](#)

Mathematics Year 6: (6F3) [Compare and order fractions, including fractions  \$> 1\$](#)

### Differentiation:

**Developing** Questions to support comparing and ordering unit fractions where denominators are direct multiples of the same number (for example  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$  and the common denominator is 8).

**Expected** Questions to support comparing and ordering fractions where denominators are not always direct multiples of the same number (for example  $\frac{1}{2}$ ,  $\frac{1}{5}$ ,  $\frac{1}{10}$  and the common denominator is 10).

**Greater Depth** Questions to support comparing and ordering fractions where denominators are not always direct multiples of the same number (for example  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{1}{6}$ ,  $\frac{1}{8}$  and the common denominator is 24).

More [Year 5 and Year 6 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

## Compare and Order by Denominator

1a. Order the fractions below in ascending order.

$$\frac{1}{4}$$

$$\frac{1}{2}$$

$$\frac{7}{8}$$

$$\frac{3}{8}$$

$$\frac{3}{4}$$



6 VF

2a. Order the fractions represented by the bar models in ascending order.



Use the information above to complete the sentence.

$$\frac{\square}{\square} < \frac{\square}{\square} < \frac{\square}{\square}$$



6 VF

3a. Fill in the missing digit.

a  $\frac{\square}{4} < \frac{1}{2}$

b  $\frac{\square}{6} > \frac{2}{3}$

c  $\frac{1}{\square} = \frac{2}{8}$



6 VF

4a. Isabel says,

I had a bag of sweets. I gave Hannah  $\frac{1}{4}$  of the bag and I kept the rest. Hannah had less sweets.



Isabel

True or false?



6 VF

## Compare and Order by Denominator

1b. Order the fractions below in ascending order.

$$\frac{5}{6}$$

$$\frac{1}{3}$$

$$\frac{1}{6}$$

$$\frac{2}{3}$$

$$\frac{1}{2}$$



6 VF

2b. Order the fractions represented by the bar models in ascending order.



Use the information above to complete the sentence.

$$\frac{\square}{\square} < \frac{\square}{\square} < \frac{\square}{\square}$$



6 VF

3b. Fill in the missing digit.

a  $\frac{3}{4} < \frac{\square}{8}$

b  $\frac{\square}{4} < \frac{3}{8}$

c  $\frac{2}{\square} = \frac{1}{2}$



6 VF

4b. Gabriel says,

I had a bag of sweets. I gave Ben  $\frac{1}{3}$  of the bag and I kept the rest. Ben had more sweets.



Gabriel

True or false?



6 VF

## Compare and Order by Denominator

5a. Order the fractions below in ascending order.

$$\frac{2}{3}$$

$$\frac{1}{2}$$

$$\frac{5}{6}$$

$$\frac{5}{8}$$

$$\frac{3}{4}$$



6 VF

6a. Order the fractions represented by the bar models in ascending order.



Use the information above to complete the sentence.

$$\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} > \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} > \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



6 VF

7a. Fill in the missing digit.

a  $\frac{\boxed{\phantom{00}}}{6} < \frac{1}{5}$

b  $\frac{\boxed{\phantom{00}}}{10} > \frac{4}{5}$

c  $\frac{1}{\boxed{\phantom{00}}} = \frac{3}{6}$



6 VF

8a. Alice says,

I had a bag of sweets. I gave Cian  $\frac{5}{8}$  of the bag and I kept the rest. Cian had less sweets.



Alice

True or false?



6 VF

## Compare and Order by Denominator

5b. Order the fractions below in descending order.

$$\frac{5}{6}$$

$$\frac{1}{4}$$

$$\frac{3}{10}$$

$$\frac{2}{5}$$

$$\frac{1}{2}$$



6 VF

6b. Order the fractions represented by the bar models in descending order.



Use the information above to complete the sentence.

$$\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} > \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} > \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



6 VF

7b. Fill in the missing digit.

a  $\frac{4}{\boxed{\phantom{00}}} > \frac{3}{4}$

b  $\frac{\boxed{\phantom{00}}}{4} < \frac{2}{5}$

c  $\frac{4}{\boxed{\phantom{00}}} = \frac{1}{2}$



6 VF

8a. Josh says,

I had a bag of sweets. I gave Chuan  $\frac{4}{6}$  of the bag and I kept the rest. Chuan had more sweets.



Josh

True or false?



6 VF

## Compare and Order by Denominator

9a. Order the fractions below in ascending order.

$$\frac{1}{3}$$

$$\frac{1}{2}$$

$$\frac{9}{10}$$

$$\frac{3}{5}$$

$$\frac{3}{4}$$



6 VF

10a. Order the fractions represented by the bar models in ascending order.



Use the information above to complete the sentence.

$$\frac{\square}{\square} < \frac{\square}{\square} > \frac{\square}{\square}$$



6 VF

11a. Fill in the missing digit.

a  $\frac{\square}{3} < \frac{3}{5}$

b  $\frac{\square}{8} > \frac{6}{7}$

c  $\frac{9}{\square} = \frac{3}{4}$



6 VF

12a. Ben says:

I had a bag of sweets. I gave Cian  $\frac{2}{8}$ , Alice  $\frac{1}{4}$  and I kept  $\frac{1}{2}$ . I had the most.



Ben

True or false?



6 VF

## Compare and Order by Denominator

9b. Order the fractions below in descending order.

$$\frac{5}{6}$$

$$\frac{7}{9}$$

$$\frac{3}{10}$$

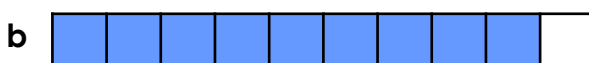
$$\frac{4}{5}$$

$$\frac{1}{3}$$



6 VF

10b. Order the fractions represented by the bar models in descending order.



Use the information above to complete the sentence.

$$\frac{\square}{\square} < \frac{\square}{\square} > \frac{\square}{\square}$$



6 VF

11b. Fill in the missing digit.

a  $\frac{9}{\square} > \frac{4}{5}$

b  $\frac{\square}{5} < \frac{1}{3}$

c  $\frac{10}{\square} = \frac{5}{6}$



6 VF

12a. Steph says:

I had a bag of sweets. I gave Hafsa  $\frac{1}{6}$ , Chuan  $\frac{1}{3}$  and I had  $\frac{1}{2}$ . Chuan had the least.



Steph

True or false?



6 VF

## Varied Fluency

### Compare and Order by Denominator

#### Developing

1a.  $\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}, \frac{7}{8}$

2a. **b, c, a**  $\frac{1}{2} < \frac{5}{8} < \frac{3}{4}$

3a. **1; 5 or 6; 4**

4a. **True**

#### Expected

5a.  $\frac{1}{2}, \frac{5}{8}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$

6a. **a, c, b**  $\frac{2}{3} > \frac{1}{2} > \frac{2}{5}$

7a. **1; 9 or 10; 2**

8a. **False,  $\frac{5}{8}$  is more than  $\frac{3}{8}$**

#### Greater Depth

9a.  $\frac{1}{3}, \frac{1}{2}, \frac{3}{5}, \frac{3}{4}, \frac{9}{10}$

10a. **a, c, b**  $\frac{7}{10} < \frac{3}{4} > \frac{5}{7}$  OR  $\frac{5}{7} < \frac{3}{4} > \frac{7}{10}$

11a. **1; 7 or 8; 12**

12a. **True**

## Varied Fluency

### Compare and Order by Denominator

#### Developing

1b.  $\frac{1}{6}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}, \frac{5}{6}$

2b. **c, a, b**  $\frac{1}{2} < \frac{2}{3} < \frac{5}{6}$

3b. **7 or 8; 1; 4**

4b. **False,  $\frac{2}{3}$  is more than  $\frac{1}{3}$**

#### Expected

5b.  $\frac{5}{6}, \frac{1}{2}, \frac{2}{5}, \frac{3}{10}, \frac{1}{4}$

6b. **b, c, a**  $\frac{5}{6} > \frac{4}{5} > \frac{3}{4}$

7b. **4 or 5; 1; 8**

8b. **True**

#### Greater Depth

9b.  $\frac{5}{6}, \frac{4}{5}, \frac{7}{9}, \frac{1}{3}, \frac{3}{10}$

10b. **b, c, a**  $\frac{5}{6} < \frac{9}{10} > \frac{6}{7}$  OR  $\frac{6}{7} < \frac{9}{10} > \frac{5}{6}$

11b. **10; 1; 12**

12b. **False, Hafsa had the least ( $\frac{1}{6}$ )**