# Varied Fluency
# Step 2: Fractions on a Number Line

## 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**
**Mathematics Year 6: (6F11) Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts**

## Differentiation:

**Developing Questions to support placing and comparing fractions less than 1 on a number line. Denominators are direct multiples.**
**Expected Questions to support placing and comparing fractions on a number line whose denominator are multiples of each other. Some use of improper fractions and mixed numbers less than 2.**
**Greater Depth Questions to support placing and comparing fractions on a number line whose denominators are not multiples of each other and may require simplifying. Some use of improper fractions and mixed numbers less than 2.**

## More Year 6 Fractions resources.

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


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# Fractions on a Number Line

1a. Fill in the missing fractions.

VF

2a. Match the fractions to their place on the number line.

$\frac{2}{6}$ $\frac{10}{12}$ $\frac{2}{3}$

VF

3a. Find the largest fraction by correctly placing these fractions onto the number line.

$\frac{3}{4}$ $\frac{5}{8}$ $\frac{1}{2}$

VF

4a. True or false? The fractions have been placed on the number line accurately.

VF

# Fractions on a Number Line

1b. Fill in the missing fractions.

VF

2b. Match the fractions to their place on the number line.

$\frac{8}{10}$ $\frac{3}{5}$ $\frac{10}{20}$

VF

3b. Find the largest fraction by correctly placing these fractions onto the number line.

$\frac{10}{18}$ $\frac{2}{3}$ $\frac{7}{9}$

VF

4b. True or false? The fractions have been placed on the number line accurately.

VF




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# Fractions on a Number Line

**5a. Fill in the missing fractions.**

VF

**6a. Match the fractions to their place on the number line.**

$\frac{6}{6}$ $\frac{16}{12}$ $1\frac{2}{3}$

VF

**7a. Find the largest fraction by correctly placing these fractions onto the number line.**

$\frac{6}{5}$ $\frac{16}{10}$ $\frac{10}{10}$ $1\frac{2}{5}$

VF

**8a. True or false? The fractions have been placed on the number line accurately.**

VF

# Fractions on a Number Line

**5b. Fill in the missing fractions.**

VF

**6b. Match the fractions to their place on the number line.**

$\frac{4}{10}$ $1\frac{3}{5}$ $\frac{27}{15}$

VF

**7b. Find the largest fraction by correctly placing these fractions onto the number line.**

$\frac{11}{8}$ $\frac{7}{4}$ $\frac{14}{16}$ $1\frac{1}{4}$

VF

**8b. True or false? The fractions have been placed on the number line accurately.**

VF




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# Fractions on a Number Line

9a. Fill in the missing fractions.

GD VF

10a. Match the fractions to their place on the number line.

GD VF

11a. Find the largest fraction by correctly placing these fractions onto the number line.

GD VF

12a. True or false? The fractions have been placed on the number line accurately.

GD VF

# Fractions on a Number Line

9b. Fill in the missing fractions.

GD VF

10b. Match the fractions to their place on the number line.

GD VF

11b. Find the largest fraction by correctly placing these fractions onto the number line.

GD VF

12b. True or false? The fractions have been placed on the number line accurately.

GD VF



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# Varied Fluency
# Fractions on a Number Line

## Developing

1a.

$0 \quad \frac{1}{10} \quad \frac{\boxed{1}}{5} \quad \frac{3}{\boxed{10}} \quad \frac{\boxed{4}}{10} \quad \frac{5}{10} \quad \frac{\boxed{3}}{5} \quad \frac{\boxed{7}}{10} \quad \frac{4}{\boxed{5}} \quad \frac{9}{10} \quad 1$

2a. A = $\frac{10}{12}$ B = $\frac{2}{3}$ C = $\frac{2}{6}$

3a. The largest fraction is $\frac{3}{4}$.

4a. True

## Expected

5a.

$0 \quad \frac{1}{5} \quad \frac{\boxed{2}}{\boxed{5}} \quad \frac{3}{5} \quad \frac{\boxed{8}}{10} \quad 1 \quad 1\frac{\boxed{1}}{5} \quad \frac{\boxed{14}}{10} \quad 1\frac{3}{5} \quad \frac{\boxed{36}}{20} \quad 2$

6a. A = $\frac{6}{6}$ B = $\frac{16}{12}$ C = $1\frac{2}{3}$

7a. The largest fraction is $\frac{16}{10}$.

8a. False

## Greater Depth

9a.

$0 \quad \frac{2}{10} \quad \frac{6}{15} \quad \frac{3}{\boxed{5}} \quad \frac{\boxed{8}}{10} \quad 1 \quad 1\frac{\boxed{1}}{5} \quad \frac{\boxed{14}}{10} \quad 1\frac{3}{\boxed{5}} \quad \frac{\boxed{27}}{15} \quad 2$

10a. A = $\frac{12}{9}$ B = $\frac{10}{15}$ C = $1\frac{4}{6}$

11a. The largest fraction is $\frac{9}{6}$.

12a. True

# Varied Fluency
# Fractions on a Number Line

## Developing

1b.

$0 \quad \frac{1}{12} \quad \frac{\boxed{1}}{6} \quad \frac{3}{12} \quad \frac{\boxed{1}}{3} \quad \frac{\boxed{5}}{12} \quad \frac{\boxed{3}}{6} \quad \frac{7}{12} \quad \frac{8}{\boxed{12}} \quad \frac{9}{12} \quad \frac{\boxed{5}}{6} \quad \frac{11}{12} \quad 1$

2b. A = $\frac{3}{5}$ B = $\frac{10}{20}$ C = $\frac{8}{10}$

3b. The largest fraction is $\frac{7}{9}$.

4b. False

## Expected

5b.

$0 \quad \frac{1}{6} \quad \frac{1}{\boxed{3}} \quad \frac{\boxed{6}}{12} \quad \frac{4}{\boxed{6}} \quad \frac{5}{6} \quad \frac{\boxed{3}}{3} \quad 1\frac{\boxed{1}}{6} \quad \frac{\boxed{4}}{3} \quad \frac{18}{12} \quad 1\frac{\boxed{4}}{6} \quad \frac{11}{6} \quad 2$

6b. A = $\frac{27}{15}$ B = $1\frac{3}{5}$ C = $\frac{4}{10}$

7b. The largest fraction is $\frac{7}{4}$.

8b. True

## Greater Depth

9b.

$0 \quad \frac{1}{4} \quad \frac{\boxed{4}}{8} \quad \frac{\boxed{9}}{12} \quad \frac{4}{4} \quad 1 \quad 1\frac{\boxed{1}}{4} \quad \frac{\boxed{18}}{12} \quad 1\frac{\boxed{6}}{8} \quad 2$

10b. A = $1\frac{15}{20}$ B = $\frac{3}{12}$ C = $\frac{10}{8}$

11b. The largest fraction is $\frac{16}{10}$.

12b. False


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