

Step 4: Number Sequences

Introduction

Complete the equivalent fractions below.

$$\frac{\boxed{1}}{\boxed{2}} = \frac{\boxed{}}{\boxed{4}} = \frac{\boxed{}}{\boxed{8}} = \frac{\boxed{}}{\boxed{16}}$$

Introduction

Complete the equivalent fractions below.

$$\frac{\boxed{1}}{\boxed{2}} = \frac{\boxed{2}}{\boxed{4}} = \frac{\boxed{4}}{\boxed{8}} = \frac{\boxed{8}}{\boxed{16}}$$

Varied Fluency 1

What is the missing number in the sequence below?

$$4 \frac{2}{8} \quad 4 \frac{4}{8} \quad 4 \frac{6}{8} \quad ? \quad 5 \frac{2}{8} \quad 5 \frac{4}{8}$$

What is $\frac{4}{8}$ equivalent to? How else could we write this fraction?

What is $\frac{2}{8}$ equivalent to? How else could we write this fraction?

Varied Fluency 1

What is the missing number in the sequence below?

$$4 \frac{2}{8}$$

$$4 \frac{1}{2}$$

$$4 \frac{6}{8}$$

5

$$5 \frac{1}{4}$$

$$5 \frac{4}{8}$$

Varied Fluency 1

What is the missing number in the sequence below?

$$1\frac{1}{3} \quad ? \quad 2 \quad 2\frac{1}{3} \quad 2\frac{2}{3} \quad ?$$

Why does this
become 2?

Varied Fluency 1

What is the missing number in the sequence below?

$$1 \frac{1}{3}, 1 \frac{2}{3}, 2, 2 \frac{1}{3}, 2 \frac{2}{3}, 3$$

Varied Fluency 2

Tick the box to show where the mixed number $2\frac{4}{6}$ should go in the sequence.

$2\frac{1}{6}$, A
, $2\frac{2}{6}$, B
, $2\frac{1}{2}$, C
, $2\frac{5}{6}$

What is $\frac{2}{6}$ equivalent to? How else could we write this fraction?

How many sixths are equivalent to $\frac{1}{2}$?

Varied Fluency 2

Tick the box to show where the mixed number $2\frac{4}{6}$ should go in the sequence.

| | | | | | | |
|-----------------|--------------------------|-----------------|--------------------------|-----------------|-------------------------------------|----------------|
| | A | | B | | C | |
| $2\frac{1}{6},$ | <input type="checkbox"/> | $2\frac{1}{3},$ | <input type="checkbox"/> | $2\frac{1}{2},$ | <input checked="" type="checkbox"/> | $2\frac{5}{6}$ |

Varied Fluency 3

Sequence the numbers below from smallest to largest.

$$2 \frac{6}{8}$$

$$3 \frac{6}{8}$$

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

$$4 \frac{2}{8}$$

$$2 \frac{1}{4}$$

$$3 \frac{1}{4}$$

Varied Fluency 3

Sequence the numbers below from smallest to largest.

Smallest

$$2 \frac{1}{4}$$

$$2 \frac{6}{8}$$

$$3 \frac{1}{4}$$

$$3 \frac{6}{8}$$

$$4 \frac{2}{8}$$

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

Largest

Varied Fluency 4

My sequence starts with the mixed number $8\frac{2}{10}$.

It is decreasing by $\frac{1}{10}$.

Write the next 5 numbers in the sequence.

Varied Fluency 4

My sequence starts with the mixed number $8 \frac{2}{10}$.

It is decreasing by $\frac{1}{10}$.

Write the next 5 numbers in the sequence.

$$8 \frac{1}{10}, \quad 8, \quad 7 \frac{9}{10}, \quad 7 \frac{8}{10}, \quad 7 \frac{7}{10}$$

Reasoning 1

Look at the sequence below.

Circle the mistake.

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

Explain your reasoning.

Reasoning 1

Look at the sequence below.

Circle the mistake.

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

Explain your reasoning.

$4 \frac{4}{4}$ is the mistake because it is equivalent to 5.