

Student Guide

Fractions on Number Lines

Questions 1–3 (SG pp. 320–321)

1. Fifths

2. A. $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, 1, 1\frac{1}{5}, 1\frac{2}{5}, 1\frac{3}{5}, 1\frac{4}{5}, 2, 2\frac{1}{5}, 2\frac{2}{5}, 2\frac{3}{5}, 2\frac{4}{5}, 3$

B. $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}, \frac{6}{5}, \frac{7}{5}, \frac{8}{5}, \frac{9}{5}, \frac{10}{5}, \frac{11}{5}, \frac{12}{5}, \frac{13}{5}, \frac{14}{5}, \frac{15}{5}$

3. A. $1\frac{3}{4}$ or $\frac{7}{4}$

B. $2\frac{1}{3}$ or $\frac{7}{3}$

C. $1\frac{2}{6}$ or $\frac{8}{6}$

D. $\frac{4}{5}$

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Below is a rectangle divided into six equal parts. Each part is $\frac{1}{6}$ of the rectangle. There is also a number line from 0 to 1. It is divided into 6 equal parts. It has $\frac{1}{6}$ at the point that is one sixth of the distance from 0 to 1. It has $\frac{2}{6}$ at the point that is $\frac{2}{6}$ of the distance from 0 to 1, and so on.

1. Here are another fraction strip and number line divided into parts. What fractions should they be labeled with?

The three rectangles below represent 3 wholes. The shaded part of the rectangles represents $1\frac{2}{5}$ and $\frac{7}{5}$.

The number line goes from 0 to 3.

This size rectangle is one whole:

The line segment from 0 to 1 is the unit whole:

The point shown on the number line above is $1\frac{2}{5}$ units to the right of zero. We can also say that the point is at $\frac{7}{5}$.

$1\frac{2}{5}$ is called a **mixed number**. Mixed numbers are made up of a whole number and a fraction. $\frac{7}{5}$ is called an **improper fraction**. A fraction is called improper when the numerator is greater than or equal to the denominator.

2. A. Use the number line to count by fifths to 3 using mixed numbers.
 B. Use the number line to count by fifths to 3 using improper fractions.

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3. For each rectangle and number line below, tell what fraction of the whole is represented.

This size rectangle is one whole:

The line segment from 0 to 1 is the unit whole:

A.

B.

C.

D.

Use the *Labeling Fractions on Number Lines* and *Representing Fractions* pages in your *Student Activity Book* for more practice with showing fractions on number lines.

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