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*Answers and/or discussion are included in the lesson.

Student Guide

Equivalent Fractions on Number Lines (SG pp. 76-79) **Questions 1–9**

$$1.*\frac{1}{2} = \frac{3}{6}, \frac{1}{3} = \frac{2}{6}, \frac{2}{3} = \frac{4}{6}, \frac{2}{2} = \frac{3}{3} = \frac{6}{6}, \frac{0}{2} = \frac{0}{3} = \frac{0}{6}$$

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

$$\frac{4}{5} = \frac{8}{10}, \frac{2}{2} = \frac{5}{5} = \frac{10}{10}, \frac{0}{2} = \frac{0}{5} = \frac{0}{10}$$

3. A.* $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{10}, \frac{6}{12}$

. A.*
$$\frac{1}{2}$$
, $\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$, $\frac{3}{10}$, $\frac{6}{12}$

- **B.*** All these fractions are the same distance from 0 and line up on the chart. Students should also notice that for fractions equivalent to $\frac{1}{2}$, the denominator is always twice the numerator.
- 10 **C.** Answer will vary. Possible response: $\frac{10}{20}$
- because 10 is half of 20. **4.** A. $\frac{2}{2}$, $\frac{3}{3}$, $\frac{4}{4}$, $\frac{5}{5}$, $\frac{6}{6}$, $\frac{8}{8}$, $\frac{10}{10}$, $\frac{12}{12}$
 - **B.*** The numerator and denominator are the same for fractions equivalent to 1.
 - 20**C.** Answers will vary. Possible response: because the numerator is the same as the denominator.
- 5. A. $\frac{6}{8}, \frac{9}{12}$
 - **B.** Answers will vary. Students should notice that 6 is two times 3 and 8 is two times 4. One way to find equivalent fractions is to multiply the numerator and denominator by the same number.
 - **C.** Answers will vary. Possible response: $\frac{2 \times 5}{3 \times 5} = \frac{15}{20}; \frac{3}{4}$ is equivalent to $\frac{15}{20}$ because I multiplied both the numerator and denominator by 5.

6. A.
$$\frac{2}{3}$$
, $\frac{2}{6}$

B. The numerator and denominator are divided or multiplied by the same amount to find an equivalent fraction.

$$\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$$
 or $\frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ or $\frac{8 \div 4}{12 \div 4} = \frac{2}{3}$

C. Answers will vary. Possible response: $\frac{8 \times 4}{12 \times 4} = \frac{16}{24}; \frac{8}{12} \text{ is equivalent to } \frac{16}{24}$ because I multiplied both the numerator and denominator by 2.

TG • Grade 5 • Unit 2 • Lesson 6 • Answer Key

Answer Key • Lesson 6: Equivalent Fractions on Number Lines

