Student Guide

Questions 1-19 (SG pp. 316-318)

- I. oatmeal cookie recipe calls for more sugar
- 2. Keenya lives closer
- **3.** Answers will vary. Possible responses:

A.
$$\frac{1}{3}, \frac{1}{4}, \frac{1}{8}, \frac{3}{8}, \frac{4}{9}$$

B. $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10}, \frac{6}{12}$

$$-2$$
 3 3 4 5

C.
$$\frac{2}{3}, \frac{3}{4}, \frac{3}{5}, \frac{4}{5}, \frac{3}{6}$$

- **4.*** A fraction is less than (equal to, greater than) $\frac{1}{2}$ if its numerator is less than half (equal to, greater than) half its denominator.
- **5.** Answers may vary as shown in the answers to 5A and 5B.



- **8.** A, C, D; Possible answers for G: B: $\frac{1}{4} + \frac{2}{4} > \frac{1}{2}$, E: $\frac{1}{8} \times 3 < \frac{6}{8}$, F: $\frac{6}{12} + \frac{6}{12} = \frac{3}{6} + \frac{3}{6}$ **9.** A.* $\frac{1}{6}$, $\frac{1}{3}$, $\frac{1}{2}$
 - **B.*** $\frac{3}{12}$, $\frac{3}{5}$, $\frac{3}{4}$
 - **C.*** $\frac{2}{10}$, $\frac{2}{9}$, $\frac{2}{4}$
- 10.* When the numerators are the same, the fraction with the largest denominator is the smallest fraction. Larger denominators mean the fraction strip is divided into smaller pieces.

11. A.* $\frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ **B.*** $\frac{2}{8}, \frac{6}{8}, \frac{7}{8}$ **C.*** $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}$







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

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 \begin{array}{cccc} \textbf{13.} & \text{Put the following fractions in order from smallest to largest.} \\ \textbf{A.} & \frac{4}{6}, \frac{1}{3}, \frac{1}{2} & \textbf{B.} & \frac{7}{9}, \frac{4}{10}, \frac{3}{4} & \textbf{C.} & \frac{3}{5}, \frac{3}{6}, \frac{1}{4} & \textbf{D.} \end{array} \end{array} 
                                                                                                                 D. \frac{5}{6}, \frac{5}{12}, \frac{5}{8}
   14. Explain your strategies for Questions 13A and 13D.
   15. Put the following items in order from smallest to largest.
          A. \frac{1}{10} + \frac{1}{10}, \frac{2}{5}, \frac{3}{10} B. \frac{3}{3}, \frac{1}{3} + \frac{1}{3}, \frac{1}{2} C. \frac{4}{12}, \frac{3}{6}, \frac{1}{12} + \frac{1}{12}
   16. Complete the number sentences by using the symbols <, >, or = in your
            A. \frac{1}{3} + \frac{1}{3} \bigcirc 3 \times \frac{1}{6} B. 2 \times \frac{1}{2} \bigcirc \frac{1}{2} + \frac{1}{2} C. \frac{2}{10} \bigcirc \frac{1}{2} + \frac{1}{2}
            D. \frac{6}{12} 6 \times \frac{1}{12} E. \frac{1}{9} \times 9 \frac{1}{2}
                                                                                                       F. 2 \times \frac{1}{4} \bigcirc \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}
            G. For Question 16C, Romesh says \frac{2}{10} = \frac{1}{5} + \frac{1}{5}. Do you agree? Why or why
 ✓ Check-In: Questions 17-19
   17. Put the following fractions in order from smallest to largest. Be prepared to
           explain your strategies.

A. \frac{7}{10}, \frac{3}{6}, \frac{1}{4}
B. \frac{4}{6}, \frac{2}{6}, \frac{5}{6}
                                                                                         C. \frac{2}{3}, \frac{1}{5}, \frac{7}{8}
           D. \frac{4}{6}, \frac{4}{9}, \frac{4}{12} E. \frac{4}{8}, \frac{3}{6}, \frac{5}{10}
                                                                                              F. \frac{3}{4}, \frac{5}{12}, \frac{1}{3}
   18. A. Explain how you can solve Question 17A using a benchmark of \frac{1}{2}.
            B. Explain your strategy for solving Question 17E.
   19. Compare the following items. Write a sentence for each one using < , > , or = .
           A. \frac{4}{12} \bigcirc \frac{1}{4} + \frac{1}{4} B. \frac{4}{5} \bigcirc \frac{4}{8} C. \frac{1}{8} + \frac{1}{8} \bigcirc 2 \times \frac{1}{8}

D. \frac{2}{2} \bigcirc \frac{2}{4} E. \frac{5}{10} \bigcirc \frac{1}{6} + \frac{1}{6} + \frac{1}{6} F. \frac{2}{12} \bigcirc \frac{1}{6} + \frac{1}{6}
            \textbf{G. } 7\times \frac{1}{8} \bigcirc \frac{1}{6} \times 5 \quad \textbf{H. } 3\times \frac{1}{12} \bigcirc 2\times \frac{1}{8} \quad \textbf{I. } 4\times \frac{1}{10} \bigcirc 8\times \frac{1}{5}
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                                                                                                                             Comparing Fractions
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12.* When the denominators are the same, the fraction with the largest numerator is the largest fraction.

13.	A. * $\frac{1}{3}, \frac{1}{2}, \frac{4}{6}$	B. $\frac{4}{10}, \frac{3}{4}, \frac{7}{9}$
	C. $\frac{1}{4}, \frac{3}{5}, \frac{5}{6}$	D. $\frac{5}{12}, \frac{5}{8}, \frac{5}{6}$

14.* Possible strategies for *Question 13A:* Use a Fraction Chart. Or, use $\frac{1}{2}$ as a benchmark. $\frac{1}{3}$ is less than $\frac{1}{2}$ and $\frac{4}{6}$ is greater than $\frac{1}{2}$, so $\frac{1}{3} < \frac{1}{2} < \frac{4}{6}$.

Possible strategies for *Question 13D*: Use a Fraction Chart. Or, since all the fractions have the same numerator, the fractions with the larger denominators are the smaller fractions, so that $\frac{5}{12} < \frac{5}{8} < \frac{5}{6}$.

- **15. A.** $\frac{1}{10} + \frac{1}{10}, \frac{3}{10}, \frac{2}{5}$
- **B.** $\frac{1}{2}, \frac{1}{3} + \frac{1}{3}, \frac{3}{3}$
- **C.** $\frac{1}{12} + \frac{1}{12}, \frac{4}{12}, \frac{3}{6}$
- I6. A. > B. = C. < D. =
 - E. > F. <
 - **G.** No, Romesh is incorrect. $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$
- **17. A.** $\frac{1}{4}, \frac{3}{6}, \frac{7}{10}$ **B.** $\frac{2}{6}, \frac{4}{6}, \frac{5}{6}$
 - **C.** $\frac{1}{5}, \frac{2}{3}, \frac{7}{8}$ **D.** $\frac{4}{12}, \frac{4}{9}, \frac{4}{6}$
 - **E.** They are all equal to $\frac{1}{2}$; they are all equivalent.
 - **F.** $\frac{1}{3}, \frac{5}{12}, \frac{3}{4}$
- **18. A.** Answers will vary. $\frac{1}{4}$, $\frac{3}{6}$, $\frac{7}{10}$. A possible response: $\frac{3}{6}$ is equivalent to $\frac{1}{2}$ because 3 is half of 6; $\frac{1}{4}$ is less than $\frac{1}{2}$ because fourths are smaller than halves; $\frac{7}{10}$ is greater than $\frac{1}{2}$ because 7 is more than 5, which is half of 10.
 - **B.** Answers will vary. A possible response: using the Fraction Chart, they all line up as equivalent to $\frac{1}{2}$.

19. A. <	B. >	C. =
D. >	E . =	F. <

$$\mathsf{G.} > \qquad \mathsf{H.} = \qquad \mathsf{I.} <$$

Answer Key • Lesson 4: Comparing Fractions

Stı	udent Guide	_
Hon	nework (SG p. 319)	
Oue	stions 1–8	1. Find all the f
۱.	$\frac{2}{3} + \frac{3}{32}$	2. Jackie need fabric for a b
2.	Luis	3. Jessie broug was cut into a pie, but it ' end of the n ³ / ₁₂ of Romesh
3.	Romesh	same size, v Romesh?
4.	A. TuesdayB. Wednesday	 4. Nila practice on Wednesd A. On which B. On which
5.	A. $\frac{3}{10} < \frac{1}{2}$	5. Use your Fra sentence for A. ³ / ₁₀ , ¹ / ₂
	B. $\frac{4}{8} = \frac{1}{2}$	6. Use $\frac{1}{2}$ as a b Write a num A. 1, $\frac{1}{10}$
	C. $\frac{1}{2} > \frac{2}{12}$ D. $\frac{1}{2} > \frac{1}{8} + \frac{1}{8}$	δ 7. Use your Fre to largest. 0 A. $\frac{4}{8}$, $\frac{6}{6}$, $\frac{4}{10}$ 0 D. If two fra to is larger/
6.	A. $1 > \frac{1}{10}$	8. Put the follo explain your 6. A. $\frac{7}{12}$, $\frac{1}{3}$, $\frac{9}{3}$
	B. $\frac{6}{9} > \frac{5}{12}$	$D. \frac{1}{5}, \frac{1}{4}, \frac{1}{6}$
	C. $\frac{3}{8} < \frac{3}{5}$	G. $\frac{1}{5} + \frac{1}{5}$,
	D. $3 \times \frac{1}{4} > 3 \times \frac{1}{6}$	Comparing Fractions
7.	A. $\frac{4}{10}, \frac{4}{8}, \frac{4}{6}$	Student Guide - Pa
	B. $\frac{3}{10}, \frac{3}{8}, \frac{3}{5}$	



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C. $\frac{4}{12}, \frac{4}{8}, \frac{4}{6}$

8. A. $\frac{1}{3}$, $\frac{3}{8}$, $\frac{7}{12}$

B. $\frac{5}{12}$, $\frac{1}{2}$, $\frac{3}{5}$ **C.** $\frac{1}{6}, \frac{2}{3}, \frac{3}{4}$

D. $\frac{1}{6}$, $\frac{1}{5}$, $\frac{1}{4}$ **E.** $\frac{1}{12}$, $\frac{5}{12}$, $\frac{7}{12}$

F. $\frac{2}{9}$, $\frac{1}{2}$, $\frac{3}{4}$ **G.** $\frac{2}{10}$, $\frac{1}{5}$ + $\frac{1}{5}$, $\frac{5}{10}$

H. $\frac{1}{9}, \frac{3}{6}, \frac{1}{3} + \frac{1}{3}$

larger fraction.

D. When the numerators are the same, the

fraction with the smaller denominator is the