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

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Fraction Sentences (SG pp. 69–72) Questions 1–19

1.* Answers will vary. One possible solution is: $\frac{5}{12} + \frac{1}{4} + \frac{1}{3} = 1$. See Figures 2 and 3 in the lesson for other solutions.



- **2. A.** Answers will vary. Another possible number sentence is: $\frac{2}{6} + \frac{2}{12} = \frac{1}{2}$.
 - **B.** Answers will vary. One possible solution is: $\frac{1}{6} + \frac{1}{3} = \frac{1}{2}$.



$$\frac{\frac{1}{4} + \frac{1}{12} + \frac{1}{6} = \frac{1}{2}$$

3.

4. Answers will vary. One possible solution is: $\frac{2}{4} + \frac{1}{12} + \frac{1}{6} = \frac{3}{4}$.



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5. Answers will vary. One possible solution is: $\frac{1}{3} + \frac{2}{6} + \frac{2}{12} = \frac{5}{6}$.



6. Answers will vary. One possible solution is: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{2}{3}.$



7. A.* Answers will vary. One possible solution is: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = 1$.



B.* Answers will vary. One possible solution is: $\frac{3}{3} = 1$.



- **C.*** The numerator and denominator are the same number when the fraction is equal to 1.
- **8.** Answers will vary. One possible solution is: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{6} + \frac{1}{6} = \frac{5}{3}$.



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9. A. Addition sentences will vary. One possible sentence is $\frac{1}{4} + \frac{1}{4} = \frac{7}{4}$; $7 \times \frac{1}{4} = \frac{7}{4}$.



10. A. Addition sentences will vary. One possible addition sentence is: $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{5}{2}$; $5 \times \frac{1}{2} = \frac{5}{2}$.









11. A. Answers will vary. One possible addition sentence is: $\frac{3}{3} + \frac{3}{3} + \frac{1}{3} = 2\frac{1}{3}$; $7 \times \frac{1}{3} = 2\frac{1}{3}$.





C. 1 **D.** 12

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14.	A.* 2 ¹ / ₄	15.	Α.	$\frac{13}{12}$
	B. $1\frac{5}{12}$		В.	$\frac{7}{2}$
	C. $3\frac{2}{3}$		C.*	$\frac{8}{3}$
	D. $1\frac{5}{6}$		D.	$\frac{11}{4}$

- **16.*** Answers will vary. Possible response: To decide how many wholes there are you can divide the numerator by the denominator. The remainder is the number of pieces that are left over. Use the remainder as the numerator for the fraction. For example, if you have $\frac{17}{6}$, you first divide 17 by 6 to find that you have 2 wholes. There is a remainder of 5 pieces, so that becomes $\frac{5}{6}$. The mixed number is $2\frac{5}{6}$.
- **17.*** Answers will vary. Possible response: To find out how many total pieces there are you multiply the whole number by the denominator and then add that answer to the numerator. For example, if the mixed number is $4\frac{1}{5}$, you multiply 4×5 to see that there are 20 fifths in 4 wholes. You add the $\frac{20}{5}$ to $\frac{1}{5}$ for a total of $\frac{21}{5}$.

8. A. $\frac{11}{8}$	19. A.	$3\frac{1}{4}$
B. $\frac{15}{4}$	В.	$4\frac{1}{2}$
C. $\frac{19}{5}$	C.	$4\frac{2}{3}$
D. $\frac{29}{6}$	D.	$2\frac{2}{5}$

Homework (SG p. 73) Questions 1–3

I

1. A. Answers will vary. One possible solution is: $\frac{2}{6} + \frac{1}{3} + \frac{1}{4} + \frac{1}{12} = 1$. **B.** $\frac{1}{3} + \frac{1}{4} + \frac{1}{12} = \frac{2}{3}$ **C.** Answers will vary. One possible solution is: $1 + \frac{3}{6} = 1\frac{3}{6}$ or $1\frac{1}{2}$. **D.** $\frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \frac{3}{4}$ **2. A.** $5\frac{1}{2}$ $\frac{25}{6}$ 3. A. $\frac{19}{3}$ **B.** $2\frac{3}{2}$ B. $\frac{23}{4}$ **C.** $3\frac{1}{6}$ C. $\frac{31}{10}$ **D.** $2\frac{1}{9}$ D. **E.** $2\frac{3}{5}$ $\frac{13}{2}$ $\frac{19}{5}$ E. **F.** $5\frac{2}{3}$ F. $\frac{27}{8}$ **G.** $6\frac{3}{4}$ G. $\frac{14}{9}$ **H.** $2\frac{3}{10}$ H.







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