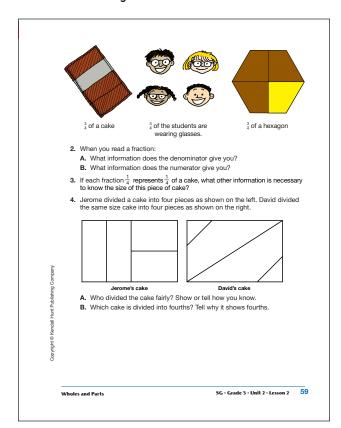


Student Guide

Wholes and Parts (SG pp. 58–63) Questions 1–18

1.* Each student is thinking of a different size cake.

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- **2. A.** The denominator tells you into how many parts the whole is divided. For example, the cake is divided into 4 equal pieces.
 - **B.** The numerator tells you the number of parts of the whole we are interested in. For example, we ate 3 of the 4 pieces.)
- **3.** The size of the whole cake.
- **4. A.*** Jerome divided the cake fairly. The 4 pieces in Jerome's cake are all the same size. David's cake is divided into 4 pieces, but the pieces are not the same size.
 - **B.*** I know Jerome's cake is divided into fourths because he first divided the cake in half, then the halves in half. There are four equal-size pieces.

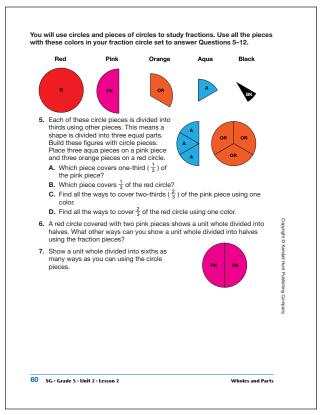
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^{*}Answers and/or discussion are included in the lesson.

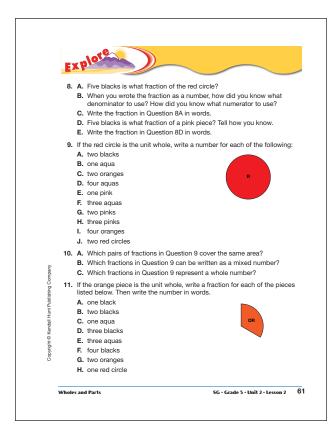
- **5. A.** aqua
 - B. orange
 - **C.** 1 orange, 2 aquas, or 4 blacks
 - D. 2 oranges, 4 aquas, or 8 blacks



- **B.** The denominator tells you how many pieces the shape is divided into and the numerator tells you the number of parts to consider. In this case, the unit whole is divided into 12 pieces. You have 5 of those pieces, so $\frac{5}{12}$ of the unit whole.
- C. five-twelfths
- **D.** $\frac{5}{6}$; Six black pieces fit on a pink and you have 5 of them.
- **E.** Five-sixths
- **9. A.** $\frac{2}{12}$
 - **B.** $\frac{1}{6}$
 - C. $\frac{2}{3}$
 - **D.** $\frac{4}{6}$
 - **E.** $\frac{1}{2}$ **F.** $\frac{3}{6}$
 - **G.*** $\frac{2}{2}$ or 1
 - **H.*** $\frac{3}{2}$ or $1\frac{1}{2}$
 - **I.** $\frac{4}{3}$ or $1\frac{1}{3}$
 - **J.** $\frac{3}{2}$ or 2
- **10.** A. $\frac{1}{2}$ and $\frac{4}{6}$, $\frac{1}{2}$ and $\frac{3}{6}$
 - **B.** $1\frac{1}{2}$ and $1\frac{1}{3}$
 - **C.** $\frac{2}{2}$ and $\frac{2}{1}$
- II. A. $\frac{1}{4}$; one-fourth
 - **B.** $\frac{4}{4}$; two-fourths
 - **C.** $\frac{1}{2}$; one-half
 - **D.** $\frac{3}{4}$; three-fourths
 - **E.** $\frac{3}{2}$ or $1\frac{1}{2}$; three-halves or one and one-half
 - **F.** $\frac{4}{4}$ or 1; four-fourths or one
 - **G.** $\frac{2}{1}$ or 2; two
 - **H.** $\frac{3}{1}$ or 3; three

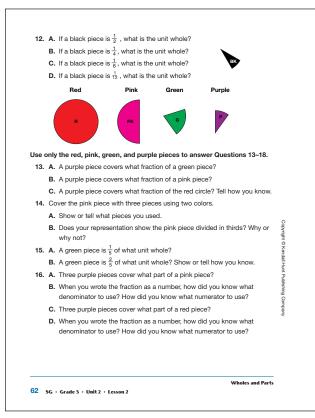


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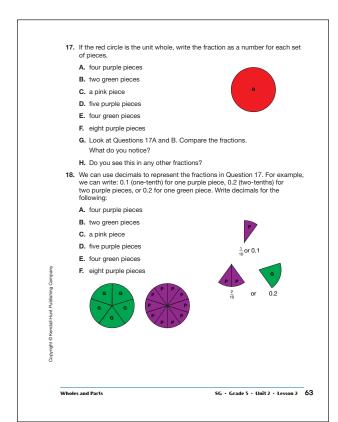


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^{*}Answers and/or discussion are included in the lesson.



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- I2. A. aqua
 - **B.** orange
 - C. pink
 - D. red
- 13. A. $\frac{1}{2}$
 - **B.** $\frac{1}{5}$
 - C. $\frac{1}{10}$; Ten purple pieces cover a red piece so one purple piece is $\frac{1}{10}$ of a red circle.
- 14. A. two greens and one purple
 - **B.** This does not show thirds because the three pieces are not equal size.
- 15. A. a red circle
 - **B.** pink; Possible response: Five purple pieces cover a pink. Two pieces show $\frac{2}{5}$ of the pink piece.
- 16. A. $\frac{3}{5}$
 - **B.** The pink piece is divided into 5 equal parts, or purple pieces, and this is the denominator. The numerator shows the three pieces you want to consider.
 - **C.** $\frac{3}{10}$
 - **D.** The red circle can be covered by 10 purple pieces, so this is the denominator. The numerator shows the three pieces you want to consider.
- 17. A. $\frac{4}{10}$
 - **B.** $\frac{2}{5}$
 - C. $\frac{1}{2}$
 - E. $\frac{4}{5}$
 - **F.** $\frac{8}{10}$
 - **G.** The fractions are equivalent.
 - **H.** $\frac{4}{5}$ and $\frac{8}{10}$ are also equivalent.
- **18. A.** 0.4
 - **B.** 0.4
 - **C.** 0.5
 - **D.** 0.5
 - **E.** 0.8
 - **F.** 0.8