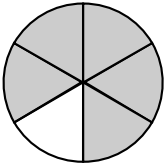


Student Guide

Circle Pieces: Red, Pink, Orange, Aqua
(SG pp. 253–257)





Questions 1–22

1. A. 2
B. 3
C. 6
2. 3
3. 2
4. aqua, orange, pink, red
5. A. 3 aquas
B. 2 oranges
C. 1 pink
6. 1 orange, 1 aqua
7. 1 orange, 1 pink, and 1 aqua
8. A.* 2 oranges, 2 aquas; 1 orange 4 aquas, or 1 pink, 3 aquas
B.* See Question A.
9. aqua
10. 2 aqua, 1 orange
11. A. pink
B. orange
C. aqua
D. 
E. greater than one-half

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
Circle Pieces: Red, Pink, Orange, Aqua


Find all the pieces with these colors in your fraction-circle set to use in this lesson.

Red	Pink	Orange	Aqua
			

Explore

1. Cover the red circle with all one color.
 - A. How many pink pieces does it take?
 - B. How many oranges?
 - C. How many aquas?
2. How many aquas cover one pink?

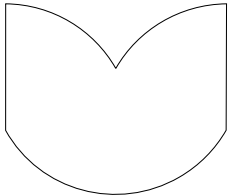


3. How many aquas cover one orange?


4. Put the pieces in order from smallest to largest. Write the colors.
5. Which is larger?
 - A. one orange or three aquas
 - B. one pink or two oranges
 - C. one pink or two aquas
6. Cover a pink piece with two colors. How many of each color does it take?
7. Cover the red circle with three colors. How many of each does it take?

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8. A. Cover the red circle with two colors. How many of each color does it take?
B. Solve the problem a second way. How many of each color does it take?
9. Make the shape below using pieces that are the same color. What color did you use?


10. Make the shape in Question 9 using the least number of pieces possible. What colors did you use? How many of each color?

Parts and Wholes
Be prepared to show how you answered the questions below using pieces.

11. The red circle is the unit whole.
 - A. What piece is one-half?
 - B. What piece is one-third?
 - C. What piece is one-sixth?
 - D. We can write $\frac{5}{6}$ for five aquas. Show this fraction with pieces.
 - E. Are two orange pieces greater than, less than, or equal to one-half?

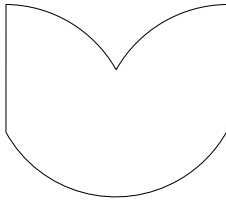
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*Answers and/or discussion are included in the lesson.

12. The red circle is the unit whole.
- A. Write a fraction for three aqua pieces.
 - B. Are three aqua pieces greater than, less than, or equal to one-half?
 - C. Write a fraction for two aqua pieces.
 - D. Are two aqua pieces greater than, less than, or equal to one-third?
13. The pink piece is the unit whole.
- A. What piece shows one-third?
 - B. Write a fraction for two aqua pieces.
 - C. Is one orange piece greater than, less than, or equal to two aquas?
 - D. Write a fraction for one orange piece.
 - E. Is an orange piece greater than, less than, or equal to one-half?
14. If the orange piece is the unit whole, write a fraction for one aqua as a number and in words.
15. The shape below is the unit whole.



- A. Write a fraction for one aqua.
- B. Write a fraction for two aquas. Show this fraction with pieces.
- C. What other piece makes the same fraction as two aquas?
- D. Write a fraction for three aquas. Show this fraction with pieces.
- E. Are three aquas greater than, less than, or equal to one-half?

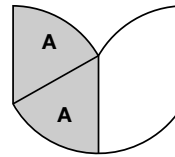
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Circle Pieces: Red, Pink, Orange, Aqua

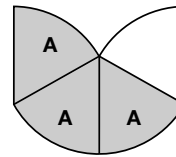
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12. A.* Possible solutions: $\frac{1}{2}$ or $\frac{3}{6}$
 B.* equal to
 C.* $\frac{2}{6}$ or $\frac{1}{3}$
 D.* equal to
13. A. aqua
 B. $\frac{2}{3}$
 C. equal to
 D. $\frac{2}{3}$
 E. greater than
14. $\frac{1}{2}$; one-half, or one of two
15. A. $\frac{1}{4}$
 B. $\frac{2}{4}$ or $\frac{1}{2}$;



- C. 1 orange
- D. $\frac{3}{4}$;



- E. greater than
16. A. red
 B. orange
17. A. red
 B. pink
18. A. red
 B. pink
19. A. red
 B. pink

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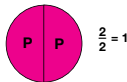
Name the Unit Whole

16. What is the unit whole:
 A. if one pink piece is one-half?
 B. if one aqua piece is one-half?
17. What is the unit whole:
 A. if one orange piece is one-third?
 B. if one aqua piece is one-third?
18. What is the unit whole:
 A. if two oranges are two-thirds?
 B. if one orange piece is two-thirds?
19. What is the unit whole:
 A. if three aquas are one-half?
 B. if two aquas are two-thirds?

Fractions Equal To or Greater Than One

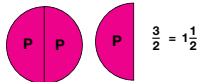
If the red circle is the unit whole, two pink pieces cover the whole circle. We can write $\frac{2}{2}$ (two-halves) to show that the whole is divided into two equal parts and that both parts are covered.

two halves or one whole



Three pink pieces are shown below. We can write $\frac{3}{2}$ or $1\frac{1}{2}$ to show that the circle is divided into halves and that three halves are shown.

three-halves or one and one-half



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



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Circle Pieces: Red, Pink, Orange, Aqua

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

20. A. $\frac{3}{3}$
 B. $\frac{5}{3}$ or $1\frac{2}{3}$
 C. $\frac{6}{6}$
 D. $\frac{7}{6}$ or $1\frac{1}{6}$
 E. $\frac{10}{6}$ or $1\frac{4}{6}$
21. A. * $\frac{3}{3}$ or 1
 B. $1\frac{1}{3}$ or $\frac{4}{3}$
22. $\frac{3}{2}$ or $1\frac{1}{2}$

Red	Pink	Orange	Aqua
			

20. The red piece is the unit whole.
 A. Write a number for 3 oranges.
 B. Write a number for 5 oranges.
 C. Write a number for 6 aquas.
 D. Write a number for 7 aquas.
 E. Write a number for 10 aquas.

21. The pink piece is the unit whole.
 A. Write a number for 3 aquas.
 B. Write a number for 4 aquas.

22. If the orange piece is the unit whole, write a number for 3 aquas.

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Use the *Fraction Challenge* pages in the *Student Activity Book* to explore modeling fractions with rectangles.

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