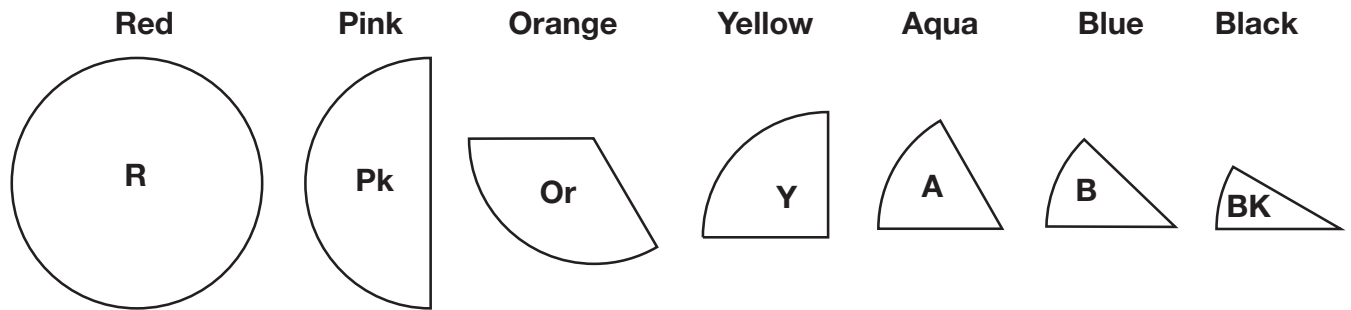


# Black Circle Pieces



Use the red circle, and the pink, orange, yellow, aqua, blue, and black fraction circle pieces for these questions.

1. Cover each of the pieces below evenly with all black pieces. Tell how many black pieces cover each piece evenly. If you cannot cover a piece with all blacks evenly, say so.

**A.** \_\_\_\_\_ black pieces cover the red circle evenly.

**B.** \_\_\_\_\_ black pieces cover a pink piece evenly.

**C.** \_\_\_\_\_ black pieces cover a yellow piece evenly.

**D.** \_\_\_\_\_ black pieces cover an orange piece evenly.

**E.** \_\_\_\_\_ black pieces cover an aqua piece evenly.

**F.** \_\_\_\_\_ black pieces cover a blue piece evenly.

**G.** \_\_\_\_\_ black pieces cover 2 blue pieces evenly.

Name \_\_\_\_\_ Date \_\_\_\_\_

**2.** Which is larger, a black piece or a blue piece? Which covers more of the red circle, 11 black pieces or 7 blue pieces?

**3. A.** A black piece is  $\frac{1}{4}$  of what other piece? \_\_\_\_\_

**B.** A black piece is  $\frac{1}{3}$  of what other piece? \_\_\_\_\_

**C.** A black piece is  $\frac{1}{2}$  of what other piece? \_\_\_\_\_

**D.** 3 black pieces cover  $\frac{1}{2}$  of what other piece? \_\_\_\_\_

**4.** If the red circle is one whole, write a fraction for the following pieces.

**A.** 1 black piece \_\_\_\_\_

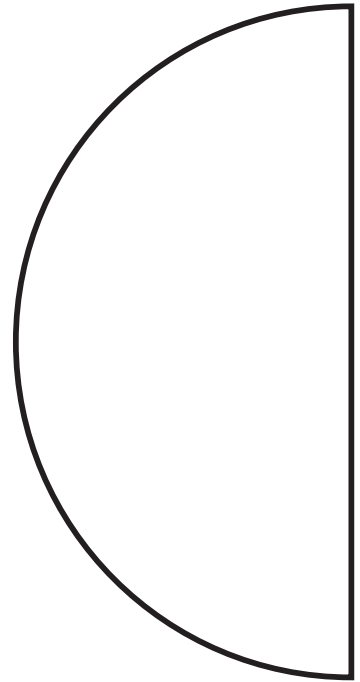
**B.** 6 black pieces \_\_\_\_\_

**C.** 4 black pieces \_\_\_\_\_

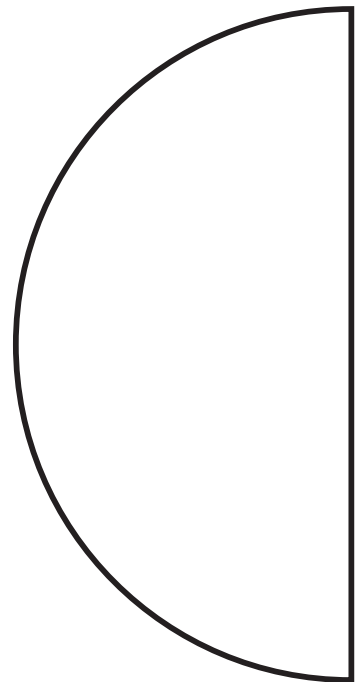
**D.** 11 black pieces \_\_\_\_\_

**5.** Cover a pink piece using only black pieces and one other color. Do not use blue.

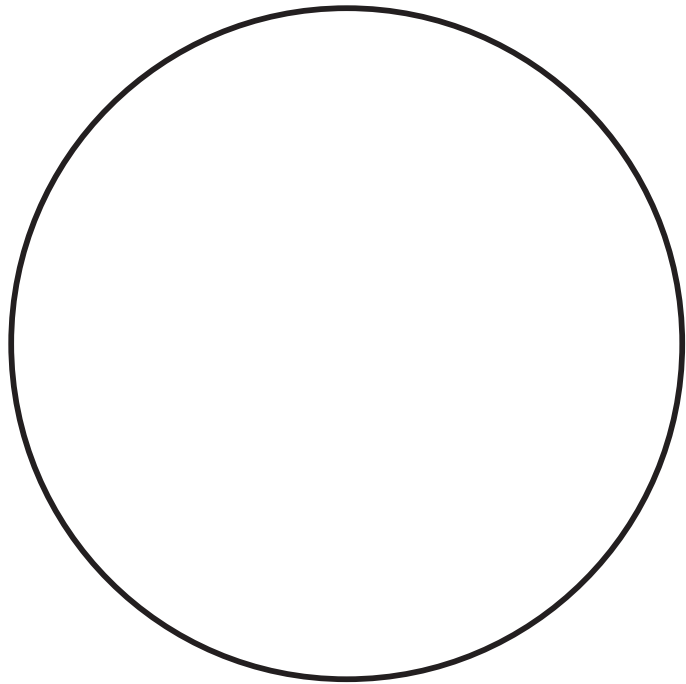
**A.** What other color did you use? How many blacks and how many pieces of the other color? Draw a picture. Write an addition number sentence for your solution.



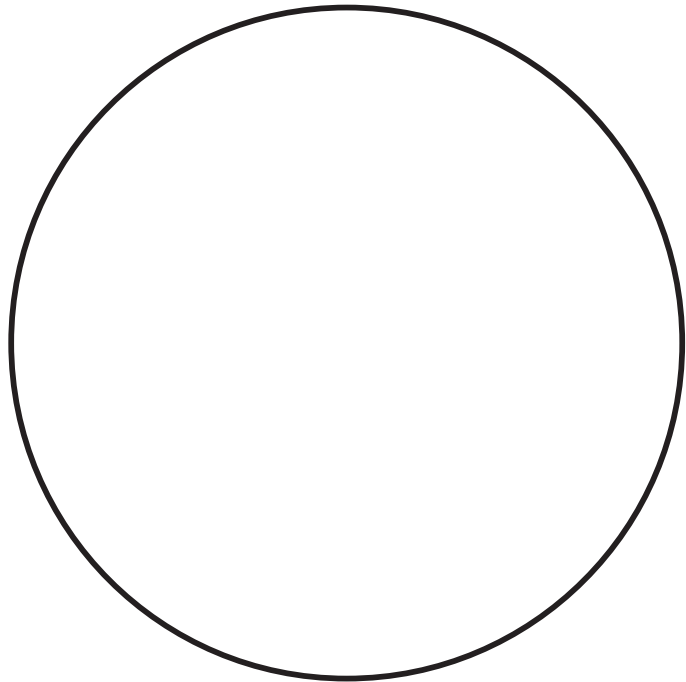
**B.** Solve the problem a different way. What other color did you use this time? How many blacks and how many pieces of the other color? Write an addition number sentence for your solution.



**6. A.** Cover the red circle using black pieces and two other colors. Do not use blue, pink, or purple. What two other colors did you use? How many blacks and how many pieces of each other color? Draw a picture. Write a number sentence for your solution.



**B.** Cover the red circle using black pieces and three other colors. Do not use blue, pink, or purple. What other colors did you use? How many blacks and how many pieces of each other color? Draw a picture and write a number sentence for your solution.



Use the *Equivalent Fractions* pages in the *Student Guide* to practice finding equivalent fractions using multiplication and division strategies.