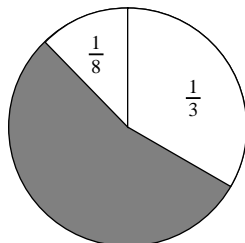


3.18

Fractional Parts of a Circle which is Shaded

• Example 1

What fractional part of the circle is shaded?

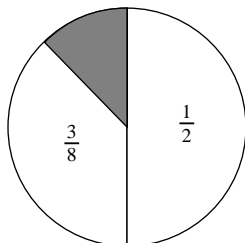


To find the shaded area, we subtract the sum of the fractional parts not shaded from the whole, which by convention is equal to 1. That is,

$$\begin{aligned}
 1 - \left(\frac{1}{8} + \frac{1}{3}\right) &= 1 - \left(\frac{3}{24} + \frac{8}{24}\right) \\
 &= 1 - \left(\frac{11}{24}\right) \\
 &= \frac{24}{24} - \frac{11}{24} \\
 &= \frac{13}{24}
 \end{aligned}$$

• • • CHECK YOURSELF 1

What fractional part of the circle is shaded?



• • • CHECK YOURSELF ANSWER

1. $\frac{1}{8}$.

3.18 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Give the fractional part that is shaded in each circle .

