

• Example 1

(a) Write $\frac{1}{3}$ as a decimal.

We obtain $\frac{1}{3} = 0.333\dots = 0.\overline{3}$

(b) Write $\frac{5}{12}$ as a decimal.

We obtain $\frac{5}{12} = 0.4166\dots = 0.41\overline{6}$

• • • CHECK YOURSELF 1

Find the decimal equivalent of each fraction.

a. $\frac{2}{3}$

b. $\frac{7}{12}$

• Example 2

Write $\frac{5}{11}$ as a decimal.

We obtain $\frac{5}{11} = 0.4545\dots = 0.\overline{45}$

• • • CHECK YOURSELF 2

Use the bar notation to write the decimal equivalent of $\frac{5}{7}$. (Be patient. You'll have to divide for a while to find the repeating pattern.)

• • • CHECK YOURSELF ANSWERS

1. (a) $0.666\dots = 0.\overline{6}$; (b) $\frac{7}{12} = 0.5833\dots = 0.58\overline{3}$.

2. $\frac{5}{7} = 0.71428\overline{5}$.

3.14 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Write the decimal equivalents, using the bar notation.

1. $\frac{1}{18}$

2. $\frac{4}{9}$

3. $\frac{3}{11}$

4. $\frac{8}{11}$

5. $\frac{5}{18}$

6. $\frac{7}{11}$

7. $\frac{4}{15}$

8. $\frac{5}{6}$

9. $\frac{7}{15}$

10. $\frac{7}{24}$