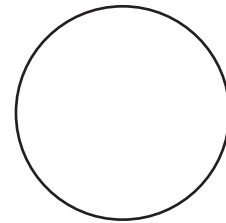
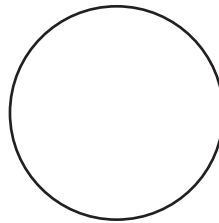
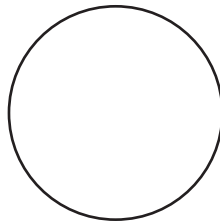
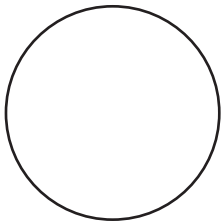
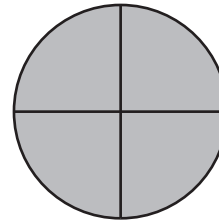
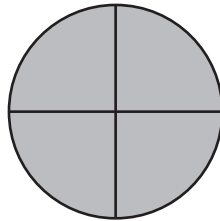
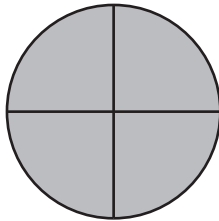


The problems on this page are about how the division problem  $4\overline{)3}$  and the fraction  $\frac{3}{4}$  are related and about how we can write the fraction  $\frac{3}{4}$  as a decimal.

- Four people will share 3 pies equally. Each person will put their share of pie in a pie tin. Draw in the picture to show how much pie each person gets.

What fraction of each person's pie tin is filled with pie?

Answer: \_\_\_\_\_



person 1's  
share of pie

person 2's  
share of pie

person 3's  
share of pie

person 4's  
share of pie

- Four people will share \$3 equally. How much money does each person get?

Answer: \_\_\_\_\_

- One way to write the fraction  $\frac{3}{4}$  as a decimal is to divide  $4\overline{)3}$  as you might have done in problem 2. Another way to write  $\frac{3}{4}$  as a decimal is to find an equivalent fraction first. Fill the box to make an equivalent fraction. Then write the new fraction as a decimal.

$$\frac{3}{4} = \frac{\boxed{\phantom{00}}}{100} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

There are different strategies we can use to write a fraction as a decimal.

1. Write the following fractions as decimals by dividing the denominator into the numerator.  
For example, to write  $\frac{3}{4}$  as a decimal, divide 4 into 3,  $4\overline{)3.00}$ .

$$\frac{3}{4} =$$

$$\frac{1}{8} =$$

$$\frac{2}{11} =$$

$$\frac{1}{3} =$$

$$\frac{1}{4} =$$

$$\frac{3}{8} =$$

$$\frac{5}{11} =$$

$$\frac{2}{3} =$$

2. Write the following fractions as decimals by first making an equivalent fraction with denominator 10 or 100. This strategy doesn't work for all fractions but it can be a quick method when it does work.

$$\frac{1}{2} = \frac{\square}{10} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{3}{25} = \frac{\square}{\square} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{3}{5} = \frac{\square}{\square} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{17}{50} = \frac{\square}{\square} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{9}{20} = \frac{\square}{\square} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{1}{4} = \frac{\square}{\square} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

3. Use division to write the following fractions as decimals.

$$\frac{3}{5} =$$

$$\frac{3}{8} =$$

$$\frac{1}{3} =$$

$$\frac{7}{11} =$$

4. Write the following fractions as decimals by first making an equivalent fraction with denominator 10 or 100.

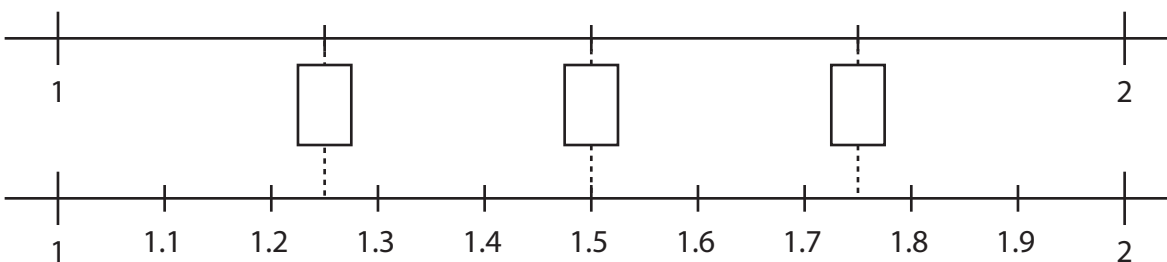
$$\frac{2}{5} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{28}{50} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{13}{20} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

$$\frac{2}{25} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \underline{\hspace{2cm}} \leftarrow \text{write as decimal}$$

5. Fill the boxes under the first number line with the appropriate mixed numbers.



Use the number lines to write the mixed numbers on the first number line as decimals.

$$\boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\boxed{\phantom{00}} = \boxed{\phantom{00}}$$