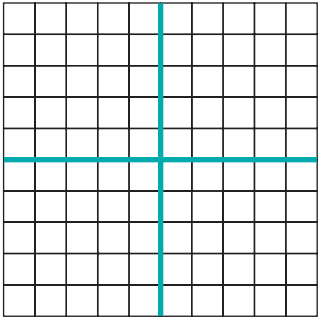
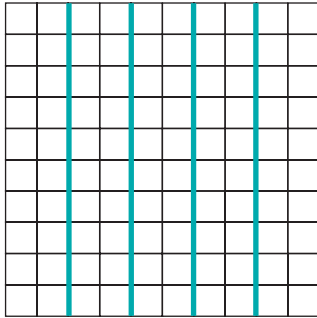


Connecting Decimals to Other Fractions

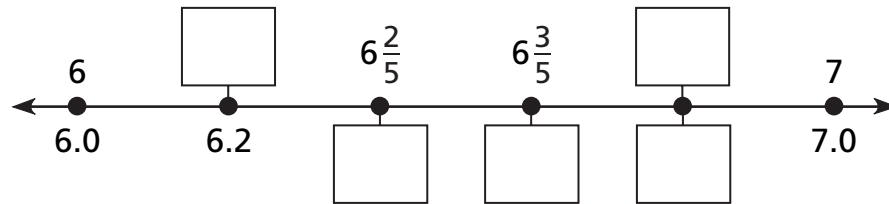
NCTM Standards 1, 2, 6, 7, 8, 10

Use the grid to help you write the equivalent decimal for each fraction.

1  $\frac{1}{4} = \underline{\hspace{2cm}}$
 $\frac{3}{4} = \underline{\hspace{2cm}}$

2  $\frac{3}{5} = \underline{\hspace{2cm}}$
 $\frac{2}{5} = \underline{\hspace{2cm}}$

- 3 Write the mixed numbers above the number line and the matching decimals below.



Write equivalent fractions and decimals.

Example

$$\frac{1}{2} = \frac{5}{10} = 0.5$$


4 $\frac{1}{5} = \frac{\square}{10} = \underline{0.\hspace{1cm}}$

5 $\frac{1}{4} = \frac{\square}{100} = \underline{0.\hspace{1cm}}$

6 $\frac{3}{4} = \frac{\square}{100} = \underline{0.\hspace{1cm}}$

7 $\frac{4}{5} = \frac{\square}{10} = \underline{0.\hspace{1cm}}$

8 $\frac{1}{20} = \frac{\square}{100} = \underline{0.\hspace{1cm}}$

- 9  Jordan ran $\frac{4}{5}$ mile. Kelley ran 0.75 mile. Who ran farther? Explain how you know.

Simplify each fraction. Then write the equivalent decimal.

Example

$$\frac{2}{4} = \frac{1}{2} = 0.5$$

$$10 \quad \frac{3}{12} = \frac{\square}{4} = \underline{0.}$$

$$11 \quad \frac{12}{16} = \frac{\square}{4} = \underline{0.}$$

$$12 \quad \frac{3}{15} = \frac{\square}{5} = \underline{0.}$$

$$13 \quad \frac{2}{40} = \frac{\square}{20} = \underline{0.}$$


$$14 \quad \frac{6}{8} = \frac{\square}{4} = \underline{0.}$$

$$15 \quad \frac{4}{20} = \frac{\square}{5} = \underline{0.}$$

$$16 \quad \frac{28}{35} = \frac{\square}{5} = \underline{0.}$$



17 Explain how you simplified the fraction $\frac{28}{35}$ in Problem 16.

18 Challenge This square  represents $\frac{1}{100}$.
Imagine splitting it into 10 equal pieces.

Write the fraction for 1 piece. _____

Write the decimal for 1 piece. _____

Write one fraction for 5 pieces. _____

Write a different fraction for 5 pieces. _____

Write the decimal for 5 pieces. _____