

# FRACTIONS, DECIMALS, & PERCENTS

## CONVERTING FRACTIONS TO PERCENTS

- A \_\_\_\_\_ can be written as a percent when the denominator is \_\_\_\_\_.
- If the denominator is a friendly number, you can \_\_\_\_\_ up or down, or use a \_\_\_\_\_.

$$\frac{2}{5} \cdot \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{40}{100}$$

$$\frac{2}{5} = \frac{40}{100}$$

Convert each fraction to a percent by making each denominator 100.

|    |                |    |                |    |                 |
|----|----------------|----|----------------|----|-----------------|
| 1. | $\frac{6}{20}$ | 2. | $\frac{7}{10}$ | 3. | $\frac{60}{50}$ |
|----|----------------|----|----------------|----|-----------------|

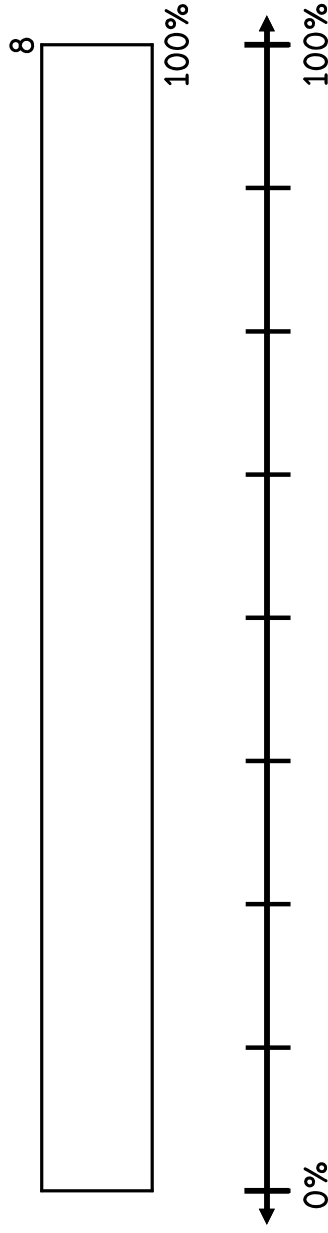
## TAPE DIAGRAMS AND NUMBER LINES

- Not all fractions can easily be multiplied by a whole number to get a denominator of 100. For example,  $\frac{1}{3}$ .
- Divide the tape diagram or number line into the same number of sections as the \_\_\_\_\_.
- Shade the number of parts indicated by the \_\_\_\_\_ and estimate the value.

### EXAMPLE A

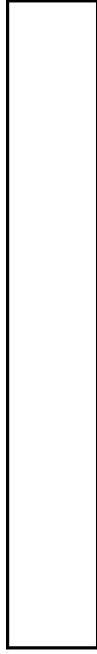
$\frac{1}{8}$  is equal to what percent?

$$\frac{1}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



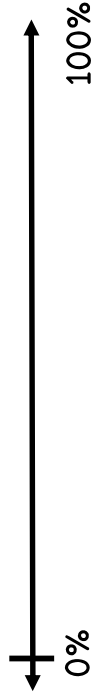
Create a tape diagram or number line to determine an equivalent percent.

4.  $\frac{1}{3}$  is equal to what percent?



100%

5.  $\frac{3}{8}$  is equal to what percent?



## CONVERTING FRACTIONS TO DECIMALS

- A fraction can be converted to a decimal by \_\_\_\_\_ the numerator by the denominator.

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

Convert each fraction below to the decimal equivalent.

6.

$$\frac{7}{8}$$

7.

$$\frac{1}{25}$$

8.

$$1\frac{4}{5}$$

## CONVERTING DECIMALS TO PERCENTS

- A decimal can be converted to a percent by \_\_\_\_\_ by 100 or moving the decimal \_\_\_\_\_ to the right.

Ex:  $0.85 = 85\%$

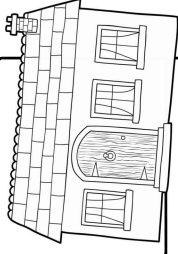
$0.7 = 70\%$

$1.25 = 125\%$

Use your understanding of equivalent forms of numbers to complete the problems below.

9. A box is filled  $\frac{4}{5}$  of the way with packing peanuts. What percent represents the fraction of the box filled with packing peanuts?

10. Marcy lives 1.15 miles away from her grandmother. What fraction represents the distance between Marcy's house and her grandmother's?



11. Nineteen of the 20 students in Mr. Gonzalez's science class are attending the field trip. What percent best represents the portion of the class that is attending the field trip?

# FRACTIONS, DECIMALS, & PERCENTS

Use your understanding of tape diagrams and number lines to model percents below.

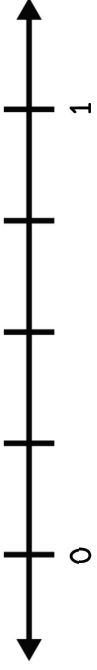
1.  $\frac{3}{5}$  is equal to what percent?

100%

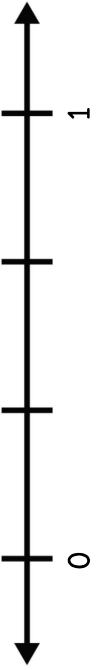
2.  $\frac{1}{10}$  is equal to what percent?

100%

3. Represent  $\frac{5}{8}$  on the number line.



4. Represent  $\frac{5}{6}$  on the number line.



5. Which of the following is true about the values below? Circle all that apply.

$\frac{1}{10}$

$\frac{1}{3}$

20%

25%

A. All the values are less than 50%  
 B. All the values can be represented by a percent  
 C. All the values are greater than 10%  
 D. All the values are greater than 1

Complete the table below to show different representations of each fraction or percent.

| FRACTION        | X<br>100 | PERCENT |
|-----------------|----------|---------|
| $\frac{11}{25}$ |          |         |
| $\frac{29}{50}$ |          |         |
| $\frac{15}{20}$ |          |         |

| FRACTION | X<br>100 | PERCENT |
|----------|----------|---------|
|          |          | 20%     |
|          |          | 80%     |
|          |          | 15%     |