

Unit 8 Objective 5 Remediation

Find Equivalent Decimals

***Remember!** The % sign represents “per 100.”

Method 1: To express a percent as a decimal:

- a) Drop the percent sign and write the percent as a fraction with a denominator of 100.
- b) Write the fraction as a decimal.

Method 2 (Short Cut): To express a percent as a decimal:

Another way to write a percent as a decimal is to delete the percent sign and *move the decimal point two places to the left*. Moving the decimal point two places to the left is like dividing by 100, or per 100(%).

From Percent		To Decimal
75%	0.75	0.75

Express each percent as a decimal.

You can use method 1 or method 2 above.

➤ **Example 1**

5%

Solution

$$5\% = \frac{5}{100} = 0.05 \quad \text{OR} \quad 5\% = \underset{\text{w}}{5.} = 0.05$$

➤ **Example 2**

150%

Solution

$$150\% = \frac{150}{100} \text{ (read as 1 and 50 hundredths)} = 1.50 = 1.5$$

$$\text{OR} \quad \underset{\text{w}}{150.} = 1.50 = 1.5$$

➤ **Example 3**

72.5%

Solution

$$72.5\% = \frac{72.5}{100} = \frac{725}{1000} = 0.725 \quad \text{OR} \quad \underset{\text{w}}{72.5} = 0.725$$

Try Some! Express each percent as a decimal.

1. 80%

6. 40%

2. 12.5%

7. 180%

3. 1.8%

8. 37.5%

4. 1%

9. 35%

5. 48%

10. 130%