



## Objective 9 TEKS 8.1.B Review

### 8.1.B Select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships.

You can use the context of a real-life problem to choose the most appropriate form of a rational number. All rational numbers should be changed to the same form.

<b>Fraction to decimal</b>	Divide numerator by denominator.	$\frac{2}{5} = 2 \div 5 = 0.4$
<b>Decimal to fraction</b>	Use place value of last digit to determine denominator.	$0.25 = \frac{25}{100} = \frac{1}{4}$
<b>Decimal to percent</b>	Move decimal point 2 places to right.	$0.15 = 15\%$
<b>Percent to decimal</b>	Move decimal point 2 places to left.	$38\% = 0.38$
<b>Fraction to percent</b>	Convert fraction to decimal, then convert decimal to percent.	$\frac{5}{8} = 0.625 = 62.5\%$
<b>Percent to fraction</b>	Expression as fraction with denominator of 100	$19\% = \frac{19}{100}$

**EXAMPLE** A total of  $6\frac{1}{2}$  inches of snow fell over three days. It snowed 2.8 inches on the first day and  $2\frac{3}{8}$  inches on the second day. How many inches of snow fell on the third day? Express your answer as a decimal.

$$6\frac{1}{2} = 6.5 \quad \text{Convert } 6\frac{1}{2} \text{ inches to a decimal.}$$

$$2\frac{3}{8} = 2.375 \quad \text{Convert } 2\frac{3}{8} \text{ inches to a decimal.}$$

$$6.5 - (2.8 + 2.375) = x \quad \text{Write an equation to solve the problem.}$$

$$6.5 - (5.175) = x \quad \text{Add 2.8 and 2.375.}$$

$$1.325 = x \quad \text{Subtract to solve for } x.$$

1.325 inches of snow fell on the third day.

**YOU DO IT** A bouquet has 25 roses.  $\frac{13}{25}$  are pink, 4% are white, and the remainder are red roses. How many roses of each color are in the bouquet?

The number of pink roses is 13.

Convert 4% to a **fraction** to  $4\% = \frac{4}{100}$  or  $\frac{1}{25}$  white roses to find the number of white roses.

$$\text{The number of } \underline{\text{red}} \text{ roses} = \frac{25}{25} - \left( \frac{13}{25} + \frac{1}{25} \right) = \frac{25}{25} - \frac{14}{25} = \frac{11}{25}$$

There are **13** pink roses, **1** white rose(s), and **11** red rose(s) in the bouquet.