Percents

Applying Percents

Finding A Number When the Percent Is Known

Example 1

Find each number to the nearest tenth.

1. 6.9 is $11\frac{1}{2}\%$ of what number?

2. 92 is $66\frac{2}{3}\%$ of what number?

3. 12% of what number is 20?

4. 30% of what number is 96?

Example 2

5. How much water can a 7.4 oz piece of chalk absorb if it can absorb 32% of its weight?

Example 3

6. At 2 P.M., a flag pole casts a shadow that is 155% of its actual height. If the shadow is 23.25 ft, what is the actual height of the pole?

Percents

Applying Percents

Finding A Number When the Percent Is Known

1. $6.9 = 11\frac{1}{2}\% \cdot n$

$6.9 = 0.115 \cdot n$

$\frac{6.9}{0.115} = n$

$60 = n$

6.9 is $11\frac{1}{2}\%$ of 60

2. $92 = 66\frac{2}{3}\% \cdot n$

$92 = \frac{2}{3} \cdot n$

$92 \cdot \frac{3}{2} = n$

$\frac{276}{2} = n$

$138 = n$

92 is $66\frac{2}{3}\%$ of 138

3. $12\% \cdot n = 20$

$0.12 \cdot n = 20$

$n = \frac{20}{0.12}$

$n = 166.7$

12% of 166.7 is 20

4. $30\% \cdot n = 96$

$0.30 \cdot n = 96$

$n = \frac{96}{0.30}$

$n = 320$

30% of 320 is 96

5. 32% of $7.4 = 0.32 \cdot 7.4 \approx 2.4$ oz.

2.4 ounces

6. $155\% \cdot n = 23.25$

$1.55 \cdot n = 23.25$

$n = \frac{23.25}{1.55}$

$n = 15$

The actual height of the pole is 15 feet.