

## 2.7 Percents of Numbers

***Objective: To solve problems involving percents.***



# Multiply by a Decimal

Change the percent into a decimal (or fraction)  
and multiply

Of means **MULTIPLY**

1) 15% of 60  
↓  
.15 60

$$\begin{array}{r} 60 \\ \cdot 15 \\ \hline 300 \\ +600 \\ \hline 9.00 \end{array}$$

$$\frac{15}{100} \cdot \frac{60}{1} = \frac{900}{100} = 9$$

2) 05% of 80  
↓  
.05 80

$$\begin{array}{r} 80 \\ \cdot 05 \\ \hline 400 \\ +000 \\ \hline 4.00 \end{array}$$

$$\frac{5}{100} \cdot \frac{80}{1} = \frac{400}{100} = 4$$

## Practice

- 3) 90% of the students in Mr. Berchtold's class passed the math test. If there are 40 students in the class, how many passed?

90% of 40 students is how many?

$$\begin{array}{ccc} 90\% & \text{of} & 40 \\ \downarrow & & \downarrow \\ .90 & & 40 \end{array}$$

36 students

## Practice

- 4) The school football team won 70% of their last 60 games. How many of those games did they win?

70% of 60 students is how many?

$$\begin{array}{ccc} 70\% & \text{of} & 60 \\ \downarrow & & \downarrow \\ .70 & & 60 \end{array}$$

42 games

How many games did they lose?

18 games