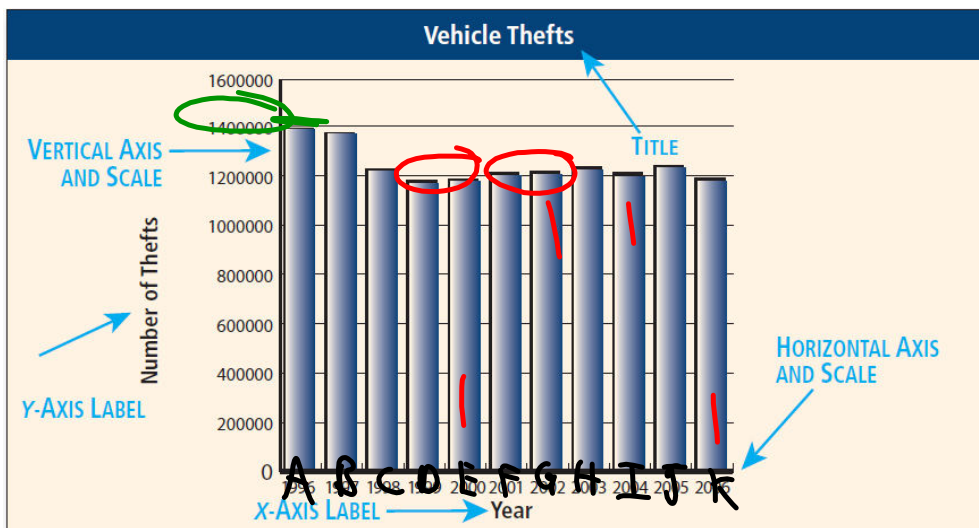


WORKSHOP 19

**Business Data Analysis:
Reading Graphs**



1. What year had about 1,400,000 thefts?

A

2. Which two years had about the same number of thefts?

G/I

WORKSHOP 21

Units of Measurement

pg 44

Length

12 inches (in) = 1 foot (ft)
 3 feet (ft) = 1 yard (yd)
 5,280 ft = 1 mile (mi)

Volume

2 cups (c) = 1 pint (pt)
 2 pt = 1 quart (qt)
 4 qt = 1 gallon (gal)

Weight

16 ounces (oz) =
 1 pound (lb)
 2,000 lb = 1 ton (t)

Below are the symbols and conversions for units of measure in the metric system.

Length

1,000 millimeters (mm) = 1 meter (m)
 100 centimeters (cm) = 1 m
 1,000 m = 1 kilometer (km)

Volume

1,000 milliliters (mL) = 1 liter (L)

Mass

1,000 grams (g) = 1 kilogram (kg)

To convert from one unit of measure to another, use the conversion lists above. When converting to a smaller unit, multiply.

Complete the problems. Check your answers in the back of the book.
 Convert.

- 9 ft to inches

$$\begin{array}{r|l}
 9 \cancel{\text{ft}} & 12 \text{ in} \\
 \hline
 & 1 \cancel{\text{ft}} = 108 \text{ in}
 \end{array}$$

Length	Volume	Weight
12 inches (in) = 1 foot (ft)	2 cups (c) = 1 pint (pt)	16 ounces (oz) =
3 feet (ft) = 1 yard (yd)	2 pt = 1 quart (qt)	1 pound (lb)
5,280 ft = 1 mile (mi)	4 qt = 1 gallon (gal)	2,000 lb = 1 ton (t)

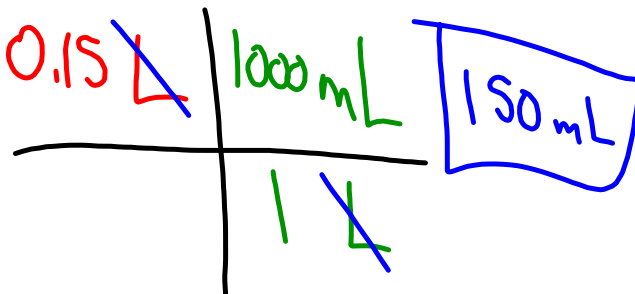
Below are the symbols and conversions for units of measure in the metric system.

Length	Volume
1,000 millimeters (mm) = 1 meter (m)	1,000 milliliters (mL) = 1 liter (L)
100 centimeters (cm) = 1 m	Mass
1,000 m = 1 kilometer (km)	1,000 grams (g) = 1 kilogram (kg)

To convert from one unit of measure to another, use the conversion lists above. When converting to a smaller unit, multiply.

Complete the problems. Check your answers in the back of the book.
Convert.

2. 0.15 L to milliliters



Length	Volume	Weight
12 inches (in) = 1 foot (ft)	2 cups (c) = 1 pint (pt)	16 ounces (oz) =
3 feet (ft) = 1 yard (yd)	2 pt = 1 quart (qt)	1 pound (lb)
5,280 ft = 1 mile (mi)	4 qt = 1 gallon (gal)	2,000 lb = 1 ton (t)

Below are the symbols and conversions for units of measure in the metric system.

Length	Volume
1,000 millimeters (mm) = 1 meter (m)	1,000 milliliters (mL) = 1 liter (L)
100 centimeters (cm) = 1 m	Mass
1,000 m = 1 kilometer (km)	1,000 grams (g) = 1 kilogram (kg)

To convert from one unit of measure to another, use the conversion lists above. When converting to a smaller unit, multiply.

Complete the problems. Check your answers in the back of the book.
Convert.

14. 96 in to yards

$$\begin{array}{c|c|c}
 96 \text{ in} & 1 \text{ ft} & 1 \text{ yd} \\
 \hline
 & 12 \text{ in} & 3 \text{ ft}
 \end{array}
 = \frac{96}{36} = \boxed{\frac{8}{3} \text{ yd}} = \boxed{2.67 \text{ yd}}$$

Length	Volume	Weight
12 inches (in) = 1 foot (ft)	2 cups (c) = 1 pint (pt)	16 ounces (oz) =
3 feet (ft) = 1 yard (yd)	2 pt = 1 quart (qt)	1 pound (lb)
5,280 ft = 1 mile (mi)	4 qt = 1 gallon (gal)	2,000 lb = 1 ton (t)

Below are the symbols and conversions for units of measure in the metric system.

Length	Volume
1,000 millimeters (mm) = 1 meter (m)	1,000 milliliters (mL) = 1 liter (L)
100 centimeters (cm) = 1 m	Mass
1,000 m = 1 kilometer (km)	1,000 grams (g) = 1 kilogram (kg)

To convert from one unit of measure to another, use the conversion lists above. When converting to a smaller unit, multiply.

Complete the problems. Check your answers in the back of the book.
Convert.

33. 2 gal 2 qt to quarts

$2 \text{ gal} \mid 4 \text{ qt}$

 1 gal

$8 \text{ qt} + 2 \text{ qt} = 10 \text{ qt}$

36 in = 1 yd

Length	Volume	Weight
12 inches (in) = 1 foot (ft)	2 cups (c) = 1 pint (pt)	16 ounces (oz) =
3 feet (ft) = 1 yard (yd)	2 pt = 1 quart (qt)	1 pound (lb)
5,280 ft = 1 mile (mi)	4 qt = 1 gallon (gal)	2,000 lb = 1 ton (t)

Below are the symbols and conversions for units of measure in the metric system.

Length	Volume
1,000 millimeters (mm) = 1 meter (m)	1,000 milliliters (mL) = 1 liter (L)
100 centimeters (cm) = 1 m	Mass
1,000 m = 1 kilometer (km)	1,000 grams (g) = 1 kilogram (kg)

To convert from one unit of measure to another, use the conversion lists above. When converting to a smaller unit, multiply.

Complete the problems. Check your answers in the back of the book.
Convert.

39. How many inches long is a $6\frac{2}{3}$ -yard roll of aluminium foil?

$$6\frac{2}{3} \cancel{\text{yd}} \quad | \quad 36 \text{ in} \\ \hline \quad \quad \quad | \quad \cancel{1 \text{ yd}} = 240 \text{ in}$$