1.2 Imperial Unit Conversion Worksheet

1) Convert the following Imperial Units.

a) 11 feet 7 inches = _____ inches

b) 40 inches = _____ feet _____ inches

c) 72 inches = _____ feet

d) 5 yards = _____ feet

e) 1.5 miles = _____ yard

f) 3.5 miles = _____ feet

g) 4400 yards = _____ miles

h) 84 inches = _____ yard _____ feet

i) 2 ¾ feet = _____ inches

j) 1 ½ yard = _____ inches

k) 2.5 feet = _____ inches

l) 39 inches = _____ feet_____ inches

1.2 Imperial Unit Conversion Worksheet

1) Convert the following Imperial Units.

a) 11 feet 7 inches = 139 inches

$11\text{ ft} \times \frac{12\text{ in}}{1\text{ ft}} = 132\text{ in} + 7\text{ in} = 139$

b) 40 inches = 3 feet 4 inches

$40\text{ in} \times \frac{1\text{ ft}}{12\text{ in}} = 3$ $\quad 40 - 36 = 4$

$3 \times 12 = 36$

c) 72 inches = 6 feet

$72\text{ in} \times \frac{1\text{ ft}}{12\text{ in}}$

d) 5 yards = 15 feet

$5\text{ yds} \times \frac{3\text{ ft}}{1\text{ yds}} = 15$

e) 1.5 miles = 2640 yard

$1.5\text{ mi} \times \frac{1760\text{ yds}}{1\text{ mi}}$

f) 3.5 miles = 18,480 feet

$3.5\text{ mi} \times \frac{5280\text{ ft}}{1\text{ mi}}$

g) 4400 yards = 2.5 miles

$4400\text{ yds} \times \frac{1\text{ mi}}{1760\text{ yds}}$

h) 84 inches = 2 yard 1 feet

$84\text{ in} \times \frac{1\text{ yd}}{36\text{ in}} =$

-72

$12\text{ in} \times \frac{1\text{ ft}}{12\text{ in}}$

i) 2 ¾ feet = 33 inches

$2\frac{3}{4}\text{ ft} \times \frac{12\text{ in}}{1\text{ ft}}$

j) 1 ½ yard = 54 inches

$1\frac{1}{2}\text{ yd} \times \frac{36\text{ in}}{1\text{ yd}}$

k) 2.5 feet = 30 inches

$2.5\text{ ft} \times \frac{12\text{ in}}{1\text{ ft}}$

l) 39 inches = 3 feet 3 inches

$39\text{ in} \times \frac{1\text{ ft}}{12\text{ in}}$

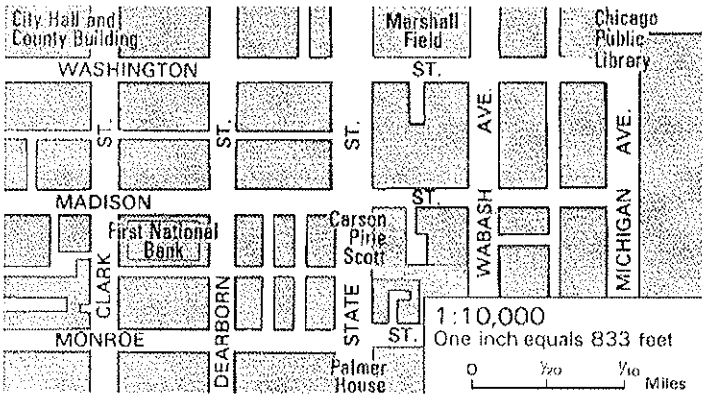
36

3

Math 6/7 NOTES (7.3) Name _____

Scale Drawings/Models & Scale Factor (SOL 7.6)

- **Scale:** The relationship between the measurements on a drawing or model and the measurements of the real object.
- **Scale drawings:** represent something that is too large or too small to be drawn at actual size.
- Distances on a scale drawing or model are ***proportional*** to the real-life distances they represent.



A map is an example of a scale drawing!

The _____ is the ratio of a given length on a drawing or model to its corresponding actual length.

- We can use the scale on a map to find out the _____ distance between cities and landmarks. To do this, we need to write and solve a _____.

Example 1: On a map of Florida, the distance between Coral Springs and Fort Lauderdale is about 4.1 centimeters. The scale on the map is 1 centimeter = 4.5 kilometers. What is the actual distance?

Example 2: On a map of North Carolina, the distance between Raleigh and Charlotte is $3\frac{1}{4}$ inches. The scale on the map is 1 inch = 40 miles. What is the actual distance?

Example 3: On a map of Texas, the distance between Houston and Austin is $2\frac{3}{4}$ inches. The scale on the map is 1 inch = 50 miles. What is the actual distance between Houston and Austin?

Math 6/7 NOTES (7.3) Name Answer Key

Scale Drawings/Models & Scale Factor (SOL 7.6)

- **Scale:** The relationship between the measurements on a drawing or model and the measurements of the real object.
- **Scale drawings:** represent something that is too large or too small to be drawn at actual size.
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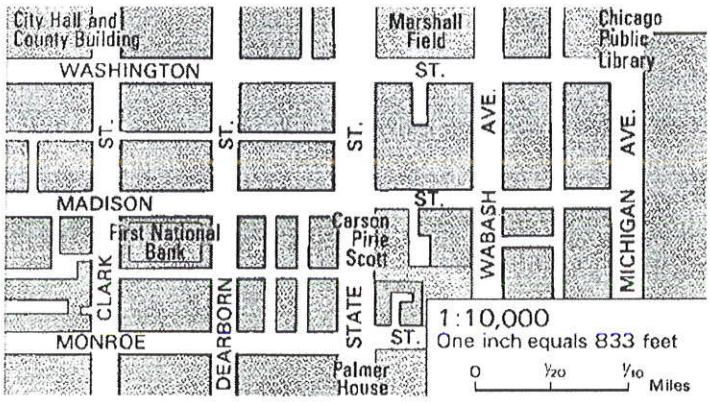

A map is an example of a scale drawing!

The scale is the ratio of a given length on a drawing or model to its corresponding actual length.

- We can use the scale on a map to find out the actual distance between cities and landmarks. To do this, we need to write and solve a ratio.

Example 1: On a map of Florida, the distance between Coral Springs and Fort Lauderdale is about 4.1 centimeters. The scale on the map is 1 centimeter = 4.5 kilometers. What is the actual distance?

$$4.1 \text{ cm} \times \frac{4.5 \text{ km}}{1 \text{ cm}} = 18.45 \text{ km}$$

Example 2: On a map of North Carolina, the distance between Raleigh and Charlotte is $3\frac{1}{4}$ inches. The scale on the map is 1 inch = 40 miles. What is the actual distance?

$$3.25 \text{ in} \times \frac{40 \text{ mi}}{1 \text{ in}} = 130 \text{ mi}$$

Example 3: On a map of Texas, the distance between Houston and Austin is $2\frac{3}{4}$ inches. The scale on the map is 1 inch = 50 miles. What is the actual distance between Houston and Austin?

$$2.75 \text{ in} \times \frac{50 \text{ mi}}{1 \text{ in}} = 137.5 \text{ mi}$$