

PRACTICE: Converting IMPERIAL to METRIC

4. Convert each measurement. Answer to the nearest tenth.

c) 5 yd. to metres

$$5 \text{ yd} = \underline{4.6} \text{ m}$$

$$\begin{array}{r} \cancel{5 \text{ yd}} \times 0.9144 \\ \hline 4.6 \text{ m} \end{array}$$



MUST KNOW CONVERSIONS...

Imperial Conversion

$$1 \text{ ft} = 12 \text{ in}$$

$$1 \text{ yd} = 3 \text{ ft}$$

$$1 \text{ mi} = 1760 \text{ yd}$$

Metric Conversions

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ cm} = 10 \text{ mm}$$

Between SI and Imperial

$$1 \text{ m} = 1.0936 \text{ yd}$$

$$1 \text{ m} = 3.2808 \text{ ft}$$

$$1 \text{ mi.} = 1.6093 \text{ km}$$

$$1 \text{ in.} = 2.54 \text{ cm}$$

d) 1650 yd. to kilometres

$$1650 \text{ yd} = \underline{1.5 \text{ km}} \text{ km}$$

$$\begin{aligned} & \cancel{1650 \text{ yd}} \times \frac{\cancel{0.9144 \text{ m}}}{\cancel{1 \text{ yd}}} \times \frac{1 \text{ km}}{\cancel{1000 \text{ m}}} \\ & = \frac{1508.76}{1000} \\ & = 1.5 \text{ km} \end{aligned}$$

PRACTICE: Converting IMPERIAL to METRIC

4. Convert each measurement. Answer to the nearest tenth.



e) 6 mi. to kilometres

$$6 \text{ mi} = \underline{9.7} \text{ km}$$

$$6 \text{ mi} \times \frac{1.6093 \text{ km}}{1 \text{ mi}}$$

or

$$6 \text{ mi} \times \frac{1 \text{ km}}{0.6214 \text{ mi}}$$

$$= 9.7 \text{ km}$$

f) 2 in. to millimetres

$$2 \text{ in} = \underline{50.8} \text{ mm} \leftarrow \checkmark$$

$$2 \text{ in} \times \frac{25.4 \text{ mm}}{1 \text{ in}}$$

or

$$2 \text{ in} \times \frac{1 \text{ mm}}{0.0394 \text{ in}}$$

$$50.8 \text{ mm}$$

1.3 Relating SI and Imperial Units

Name : _____ Score : _____

Teacher : _____ Date : _____

Converting English and Metric

- 1) 22 miles = _____ kilometers
- 2) 12 yards = _____ meters
- 3) 10 miles = _____ kilometers
- 4) _____ miles = 19.5 kilometers
- 5) _____ inches = 15 centimeters
- 6) _____ yards = 9 meters
- 7) 7 inches = _____ centimeters
- 8) _____ yards = 3.5 meters
- 9) _____ inches = 16.5 centimeters
- 10) _____ miles = 8.5 kilometers
- 11) _____ yards = 4.5 meters
- 12) 4 miles = _____ kilometers
- 13) 11 yards = _____ meters
- 14) 2 yards = _____ meters
- 15) 14.5 inches = _____ centimeters
- 16) 17 inches = _____ centimeters
- 17) 11.5 miles = _____ kilometers
- 18) _____ yards = 18.5 meters
- 19) _____ inches = 12.5 centimeters
- 20) _____ miles = 21 kilometers

Attachments

Worksheet - Converting Measurements.docx

Worksheet - Converting Imperial Lengths.docx