

Apprenticeship Math 12
UNITS & CONVERSIONS – Practice Quiz

Name: _____

Date: Feb. 14

Please show your work!

1 foot = 12 inches 1 yard = 3 feet 1 yard = 36 inches 1 mile = 1760 yards 1 mile = 5280 feet	1 inch = 2.54 cm 1 foot = 30.48 cm 1 yard = 0.9144 m 1 mile ≈ 1.609 km	1 cm = 10 mm 1 m = 100 cm 1 m = 1000 mm 1 km = 1000 m
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Learning Outcome

- I can choose appropriate length units.

1. Select appropriate imperial and metric units to measure each of the following items.

	Item	Appropriate Imperial Unit	Appropriate Metric Unit
a)	Distance around the Masich stadium track	yards	metres
b)	Height of Ms. B's water bottle	inches	centimetres
c)	Height of this room	feet	metres
d)	Thickness of the top of your desk	inches	millimetres
e)	Distance from PGSS to the airport	miles	kilometres.

2. Use the ruler provided to measure each line to the nearest millimetre.

a) 28 mm



$2\frac{8}{10}$ cm

2.8cm

b) 72 mm



use decimals for metric measurements

3. Use the ruler provided to measure each line to the nearest $\frac{1}{16}$ of an inch.

a) $4\frac{3}{16}$ in.



b) $2\frac{13}{16}$ in.



Learning Outcome

- I can convert between Imperial length units.

4. Convert the following. If rounding is necessary, round to the nearest hundredth.

a) 4 ft 3 in = 51 inches

$$\begin{array}{r} 4 \times 12 = 48 \\ + 3 \\ \hline 51 \end{array}$$

b) 20.5 miles = 36 080 yards

$$\frac{1 \text{ mi}}{1760 \text{ yd}} = \frac{20.5 \text{ mi}}{x}$$

c) 77 inches = 6 ft 5 in

$$\frac{77}{12} = 6 \frac{5}{12} \quad \begin{array}{l} 6 \times 12 = 72 \\ 77 - 72 = 5 \end{array}$$

d) 60 yards = 180 feet

$$\frac{1 \text{ yd}}{3 \text{ ft}} = \frac{60 \text{ yd}}{x}$$

Learning Outcome

- I can convert between metric length units.

5. Convert the following. If rounding is necessary, round to the nearest hundredth.

a) 19.5 m = 1950 cm

$$\begin{array}{l} m \rightarrow cm \quad \times 100 \\ 19.5 \times 100 \end{array}$$

b) 123 456 cm = 1.23 km

$$\begin{array}{l} cm \rightarrow m \quad \div 100 \\ 123 \ 456 \div 100 = 1234.56 \text{ m} \end{array}$$

c) 93.7 m = 93 700 mm

$$\begin{array}{l} m \rightarrow mm \\ \times 1000 \end{array}$$

$$93.7 \times 1000 = 93\ 700$$

d) 25.34 cm = 0.25 m

$$cm \rightarrow m \quad \div 100$$

$$0.25 \overline{) 25.34}$$