

Math 10-C Shape & Space Quick Check / 8
C1 - Measurements

Name: KEY

1. What are three units used in the SI system of linear measurement?

mm, cm, m, km

2. What are three units used in the Imperial system of linear measurement?

inches, feet, yards, miles


3. Measure the length of each line in the units stated.

a. 


5.7 cm

b. 

$1\frac{3}{4}$ inches

c. 

$2\frac{3}{8}$ inches

d. 

33 mm

4. Describe how you would use your Human Ruler to estimate the length of a whiteboard. [2 marks]

Answers may vary. Thorough description required
with specific reference to human ruler and taking
into account the need to use different sized referents.

Math 10-C Shape & Space Quick Check
C2 - Conversions

/8

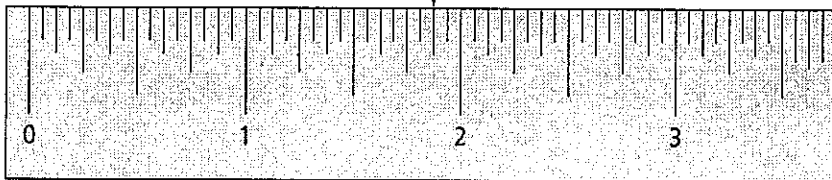
Name: KEY

1. Fill in the blanks. If necessary, round to the nearest tenth. [2]

a. $0.15 \text{ km} = \underline{150} \text{ m}$

b. $650 \text{ cm} = \underline{6.5} \text{ m}$

2. What reading is shown on the Imperial ruler below? Convert this measurement to an appropriate SI unit, rounded to the nearest hundredth. [2]



$$1 \frac{7}{8}''$$

$$1.875'' \times \left(\frac{2.54 \text{ cm}}{1''} \right) = \underline{4.76 \text{ cm}}$$

3. The height of a standard basketball net is 10 feet. What is the height of a basketball net in metres, rounded to the nearest hundredth of a metre? Show proper calculations with units included. [2]

$$10 \text{ ft} \times \left(\frac{0.3048 \text{ m}}{1 \text{ ft}} \right) = \underline{3.05 \text{ m}}$$

4. A car is travelling 80 mph. What is the speed of the car in kilometres per hour, rounded to the nearest whole number? Show proper calculations with units included. [2]

$$80 \text{ mi} \times \left(\frac{1.609 \text{ km}}{1 \text{ mi}} \right) = 129 \text{ km}$$

$$\underline{129 \frac{\text{km}}{\text{h}}}$$