Name: ..... ( ) Class: ..... Date: .....

LIVE Assignment 1: Measurements

1. A student investigates how fast his friends can run 30 m.

What is the best piece of apparatus to use to measure this distance?

a) 30 cm ruler

b) 40 m measuring tape

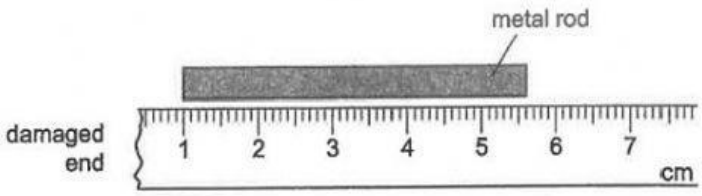
c) metre ruler

d) stopwatch

2. A student uses a ruler to measure the length of a metal rod.

The end of the ruler is damaged so the student places one end of the rod at the 1 cm mark as shown.

The ruler is not drawn to scale.



What is the length of the metal rod?

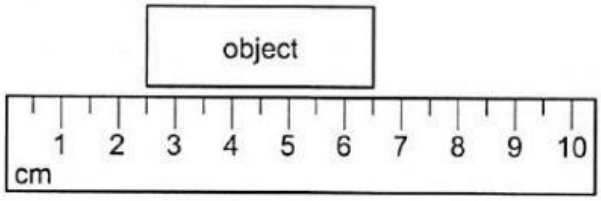
a) 43 mm

b) 46 mm

c) 53 mm

d) 56 mm

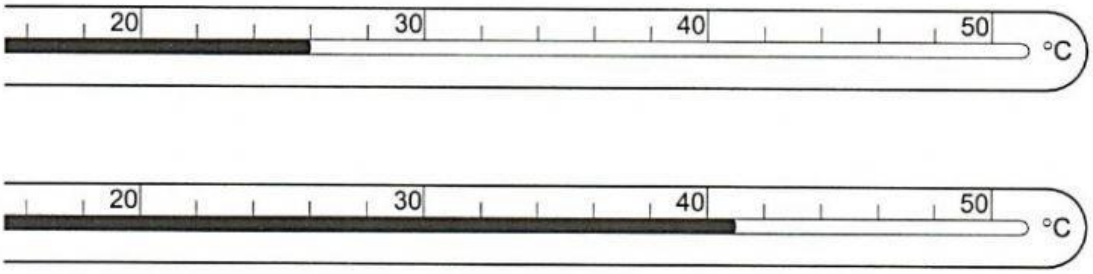
3. A ruler is used to measure the length of an object. The ruler is not drawn to scale.



What is the length of the object?

A 4.0 cm **B** 5.0 cm **C** 6.5 cm **D** 8.0 cm

4. A thermometer is used to measure two temperature.



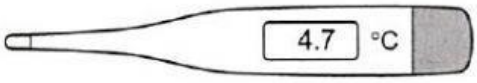
What is the increase in temperature?

A 14.5 °C **B** 15.0 °C **C** 17.5 °C **D** 18.0 °C

5. Which thermometer is reading the lowest temperature?

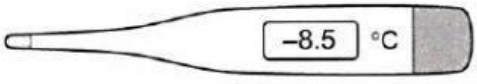
A

B



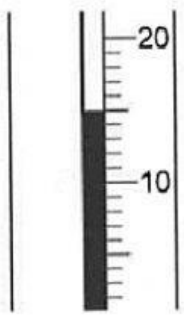
C

D

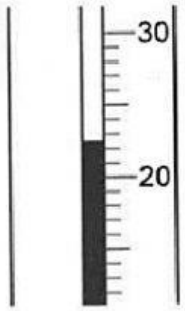


6. A student measures the temperature of water in a beaker and the temperature of the room.

The diagram shows part of the thermometer scale for each measurement.



water temperature



room temperature

(a) Record the water temperature and the room temperature.

water temperature = ... °C

room temperature = ... °C

7. The student uses two different stopwatches to measure the time it takes for the car to stop when it travels at 30 m/s and at 40 m/s.

The time shown at 30 m/s is 4.23 s.

time at 40 m/s

Calculate the difference between the time it takes to stop at 40 m/s and the time it takes to stop at 30 m/s.

..... s [1]

End of Paper