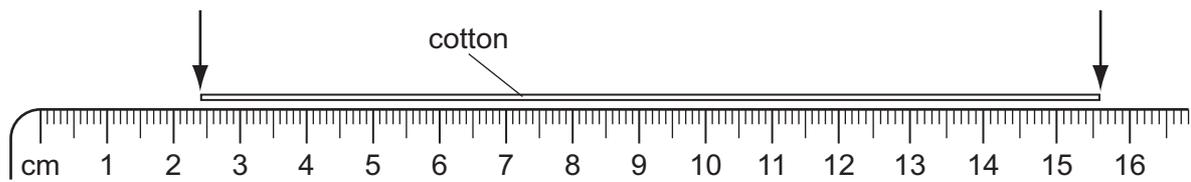
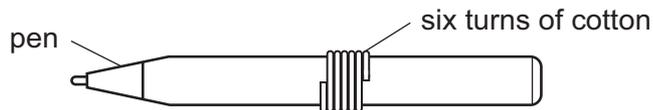


MEASURING LENGTH-SET-1-MS

- 1 A piece of cotton is measured between two points on a ruler.



When the length of cotton is wound closely around a pen, it goes round six times.



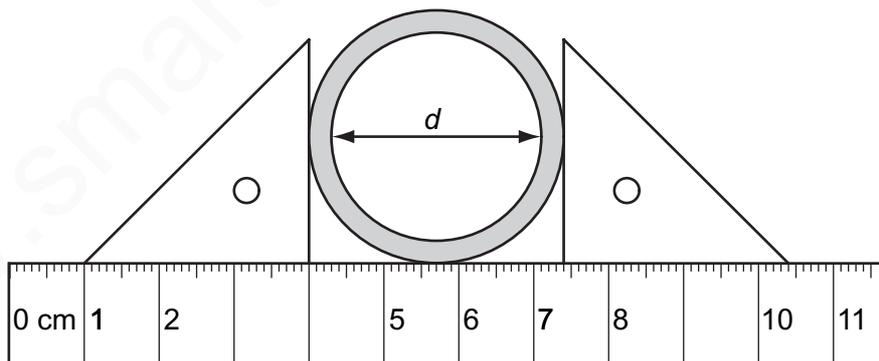
What is the distance once round the pen?

- A 2.2 cm B 2.6 cm C 13.2 cm D 15.6 cm
- 2 A decorator wishes to calculate the area of a bathroom tile so that he can estimate the amount of adhesive that he needs to buy.

What must he use?

- A a measuring cylinder only
 B a ruler only
C a measuring cylinder and a clock only
D a measuring cylinder and a ruler only

- 3 The diagram shows a thick-walled tube. The thickness of the wall is 3 mm.

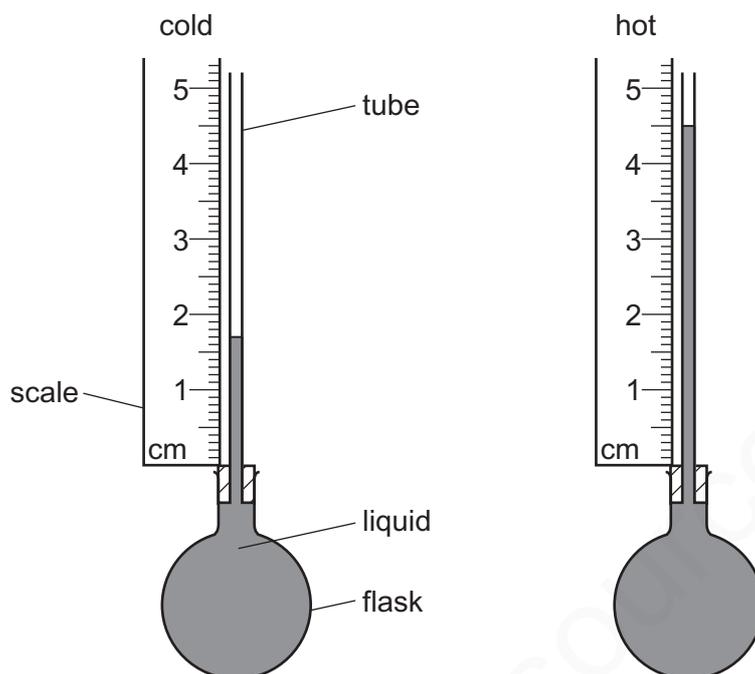


What is the internal diameter d of the tube?

- A 2.8 cm B 3.1 cm C 3.4 cm D 7.4 cm

4 Some liquid is heated in a flask.

The diagrams show the height of the liquid in the tube when the liquid is cold and when it is hot.



What is the difference in the heights?

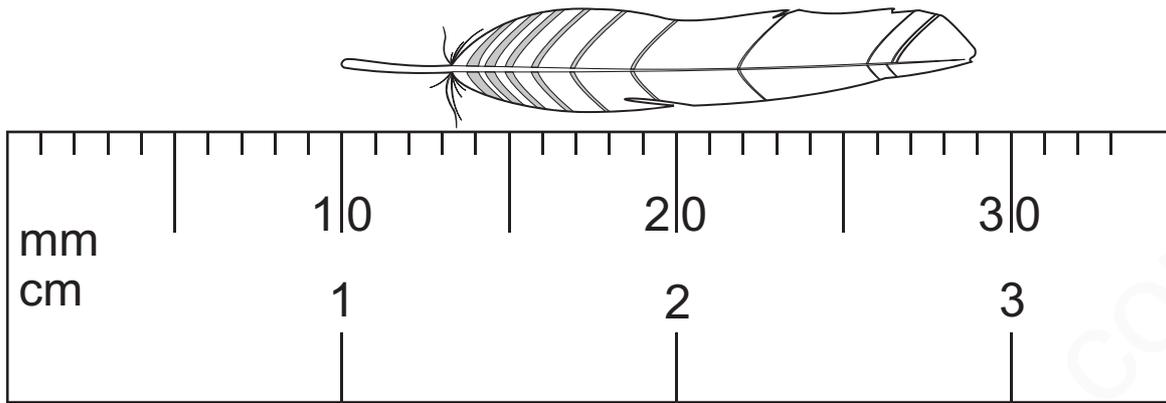
- A 1.7 cm B 2.8 cm C 3.2 cm D 4.5 cm

5 A metre rule is used to measure a length.

Which reading is shown to the nearest millimetre?

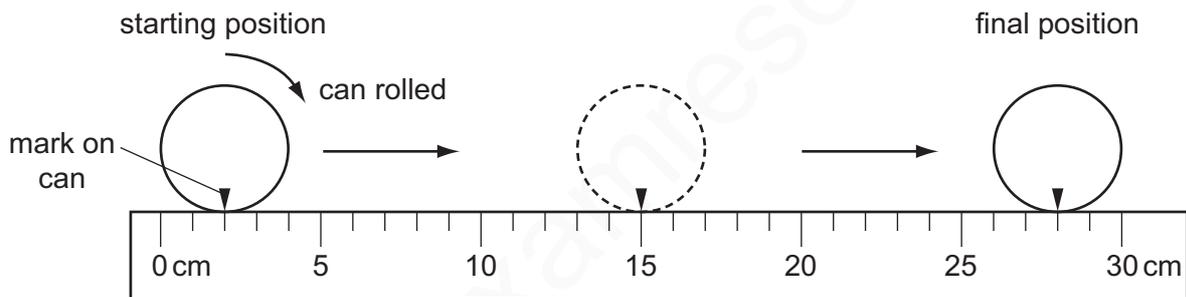
- A 0.7 m B 0.76 m C 0.761 m D 0.7614 m

- 6 The diagram shows an enlarged drawing of the end of a metre rule. It is being used to measure the length of a small feather.



What is the length of the feather?

- A 19 mm **B** 29 mm **C** 19 cm **D** 29 cm
- 7 A cylindrical can is rolled along the ruler shown in the diagram.

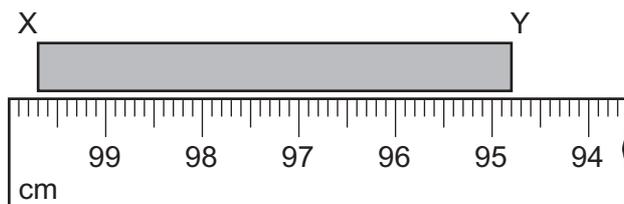


The can rolls over twice.

What is the circumference (distance all round) of the can?

- A 13 cm **B** 14 cm **C** 26 cm **D** 28 cm

- 8 A student measures the length of a rod XY by holding it next to a metre rule.

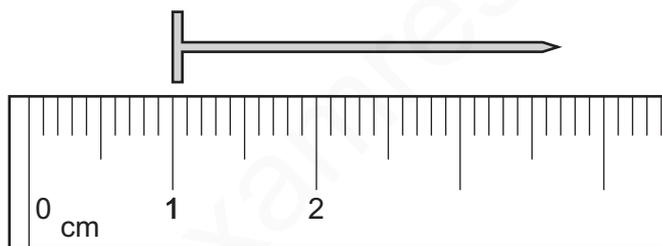


The student writes down the length as 94.8 cm.

Which statement is correct?

- A The value is correct.
- B The value is incorrect because it should be 95.2 cm.
- C The value is incorrect because it should be in millimetres.
- D The value is incorrect because the student should subtract the reading for end Y from the reading for end X.

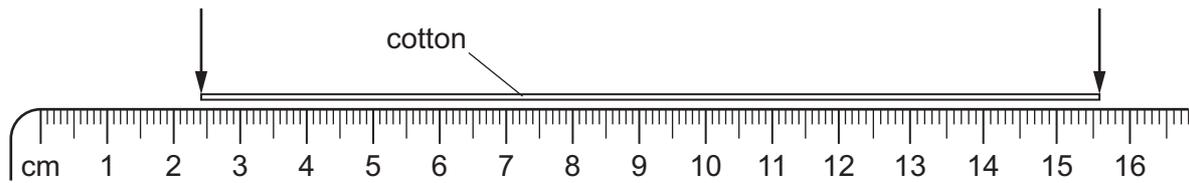
- 9 The diagram shows part of a ruler. The ruler is used to find the length of a nail.



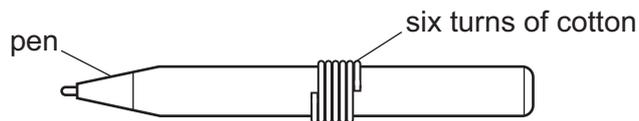
What is the length of the nail?

- A 2.2 cm
 - B 2.7 cm
 - C 3.2 cm
 - D 3.7 cm
- 10 What is the most accurate and precise method to measure the thickness of a coin?
- A Use a micrometer screw gauge.
 - B Use a ruler and look at the scale perpendicularly.
 - C Use a top pan balance.
 - D Use the displacement method with water in a measuring cylinder.

11 A length of cotton is measured between two points on a ruler.



When the length of cotton is wound closely around a pen, it goes round six times.



What is the distance once round the pen?

- A** 2.2 cm **B** 2.6 cm **C** 13.2 cm **D** 15.6 cm