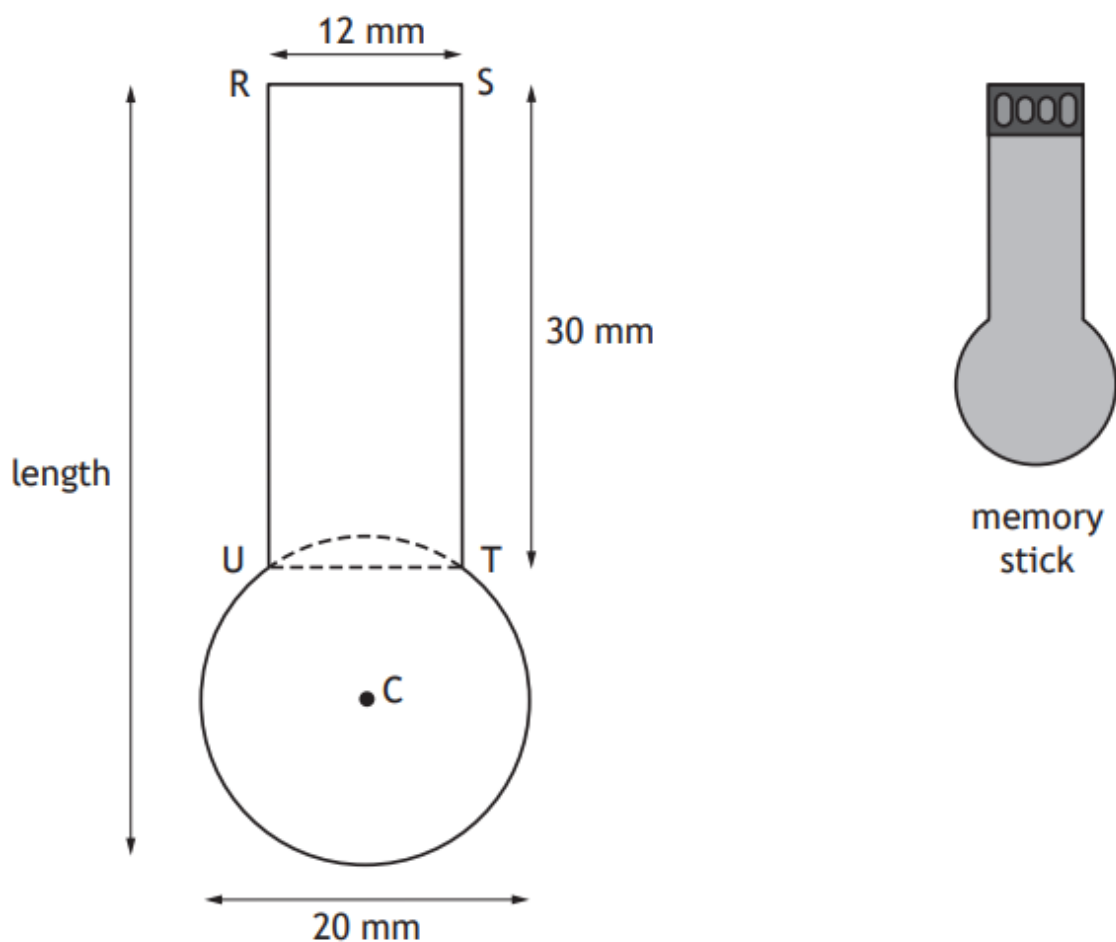The diagram below shows a design for a memory stick.

The design consists of a rectangle, RSTU and part of a circle, centre C.

12 mm

R   S

30 mm

length

U   T

.C

20 mm

memory
stick

- RS = UT = 12 millimetres

- RU = ST = 30 millimetres

- The diameter of the circle is 20 millimetres

- UT is a chord of the circle

Calculate the length of the memory stick.   **4**

Answer: 48 mm