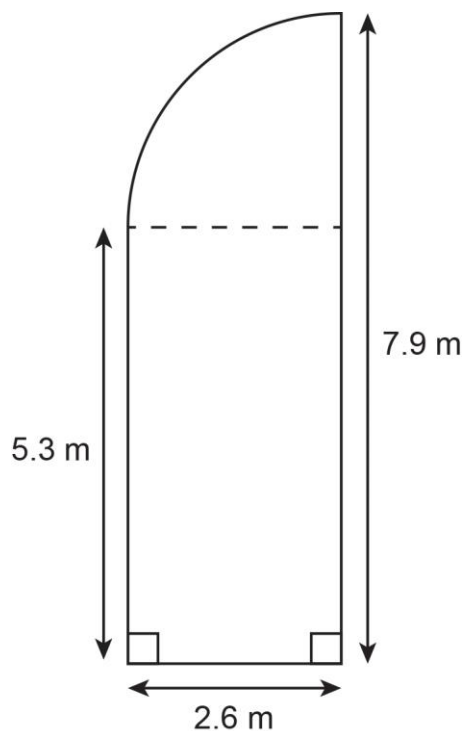


Exam questions

Question 1

Jessie needs to cover a wooden floor with varnish.

The floor is in the shape of a rectangle and a quarter circle.



A tin of varnish

- covers 6 m^2
- costs £5.41

Jessie has £25 to buy the tins of varnish she needs to cover this wooden floor.

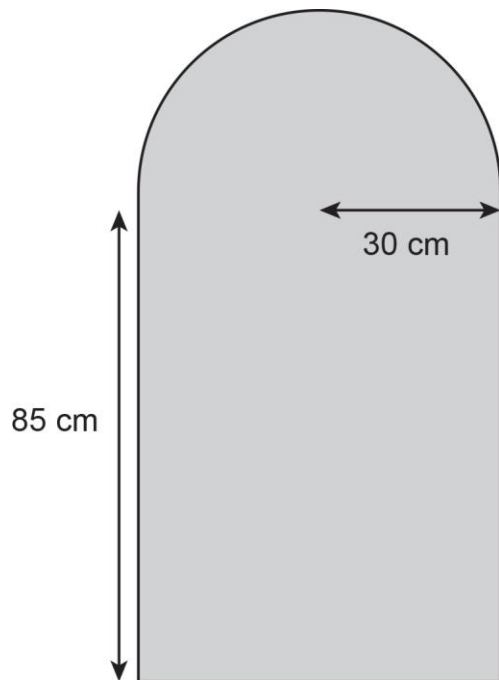
Is £25 enough to buy all the tins of varnish Jessie needs?

Question 2

Abi has a mirror in the shape of a rectangle with a semicircle on one of the shorter edges.

The radius of the semicircle is 30 cm.

The longer edge of the rectangle is 85 cm.



Abi buys a 500 cm length of mirror trim to go around all the edges of the mirror.

She thinks she will use more than $\frac{2}{3}$ of the length of the mirror trim.

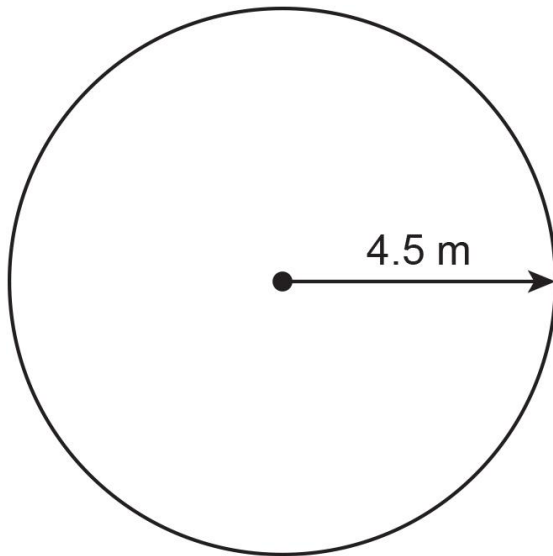
Is Abi correct?

Show why you think this.

Question 3

Joanna is a landscape gardener.

She has to fill a circular space with flowers.



The radius of the circular space is 4.5 metres.

Joanna will plant 40 flowers per square metre of space.

She will plant 4 times as many red flowers as white flowers.

How many red flowers will she plant?