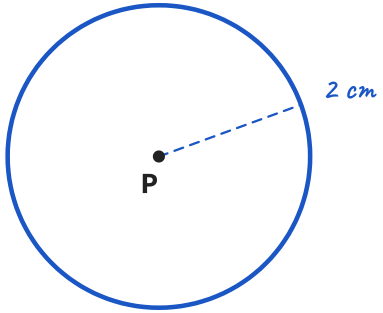
Using compasses: circles and arcs

ANSWERS

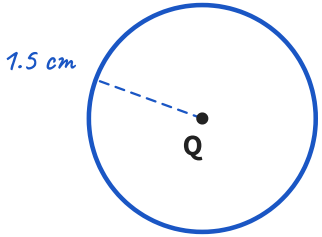
1 Point on 0, pencil on 2. Then turn.

Draw all the points that are 2 cm from P.



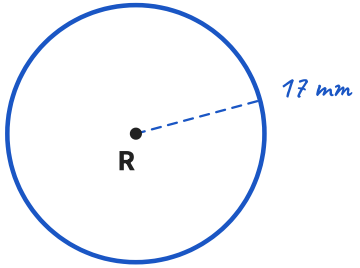
2

Draw all the points that are 1.5 cm from Q.



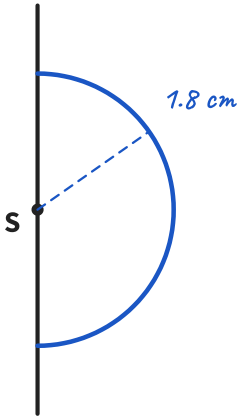
3 Notice the change!

Draw all the points that are 17 mm from R.



4 Notice the change!

Draw all the points that are 1.8 cm from S and to the right of the line.

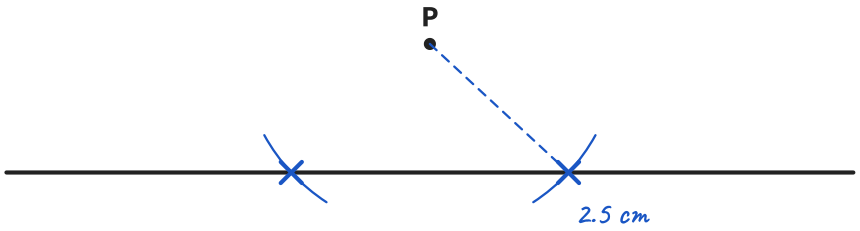


Using compasses: circles and arcs

ANSWERS

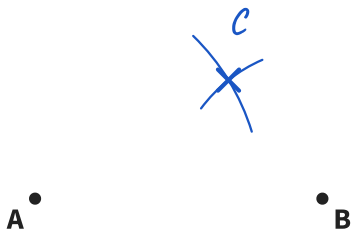
5 *Notice the change!*

Mark the points on the line that are exactly 2.5 cm from P.



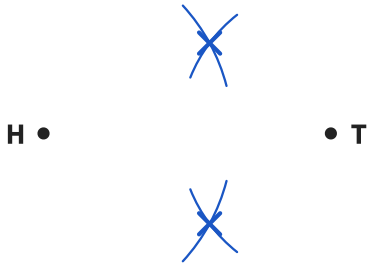
6

Mark the point above A and B that is 3 cm from A and 2 cm from B. Label it C.



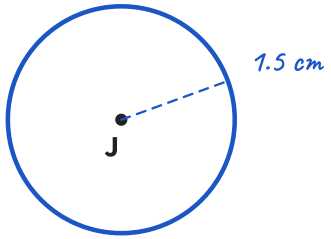
7

On a plan, a drone must land exactly 2.5 cm from the house H and 2 cm from the tree T. Mark the two places where it could land.



8

Jamal needs a circle of radius 1.5 cm. He puts the compass point on the end of his ruler, 0.5 cm before the 0, and the pencil on 1.5. What radius does he draw? Draw the circle he should draw, centre J.



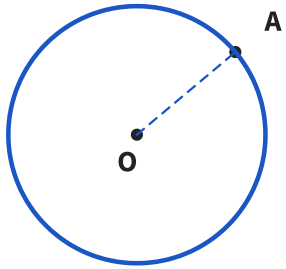
His radius = 2 cm. The point goes on 0.

Using compasses: circles and arcs *further practice*

ANSWERS

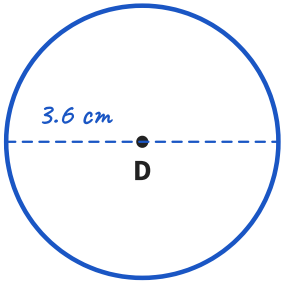
9

Draw the circle with centre O that passes through the point A.



10

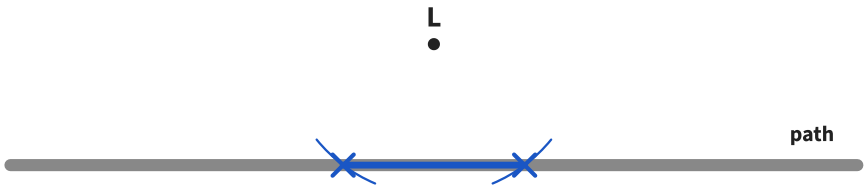
Draw a circle, centre D, with a diameter of 3.6 cm.



Radius = 1.8 cm

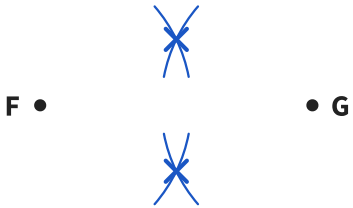
11

A sensor light at L comes on when someone is within 2 cm of it on this plan. Mark where on the path the light comes on and goes off.



12

Two friends live at F and G. A new cafe is exactly 2 cm from F and exactly 2 cm from G on the map. Mark the places it could be.

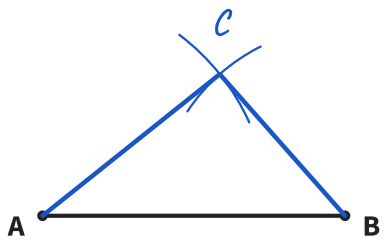


Using compasses: circles and arcs *further practice*

ANSWERS

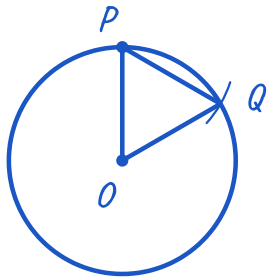
13

Construct the triangle ABC where AC = 3 cm and BC = 2.5 cm, with C above AB.



14

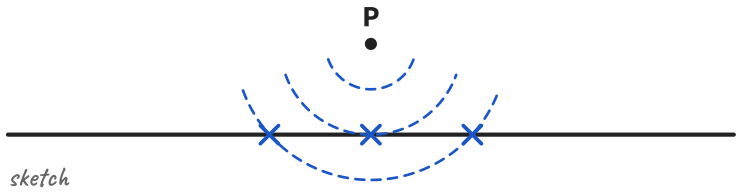
Draw a circle, centre O, radius 1.5 cm, and mark a point P on it. Keep the compasses the same and draw an arc from P that crosses the circle at Q. Join O, P and Q.
What type of triangle is OPQ? Explain.



Answer *Equilateral. Every side is 1.5 cm, the radius.*

15

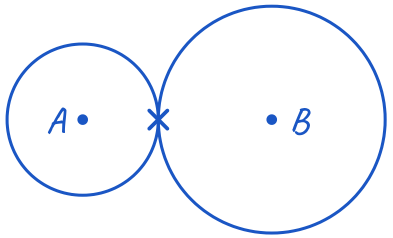
P is 2 cm from a straight line. How many points on the line are exactly 1 cm from P? 2 cm from P? 3 cm from P?



Answer *1 cm: none. 2 cm: one. 3 cm: two.*

16

A and B are 5 cm apart. Mia says there are two points that are 2 cm from A and 3 cm from B. Is she right? Explain.



Answer *No. 2 + 3 = 5, so the arcs just touch on AB. There is only one point, 2 cm from A.*