

M1.(a) Fully correct constructed circle drawn with radius [5.9, 6.1]
B1 for any circle centre P (must be constructed and not freehand)

B2

(b) Sector drawn [58°, 62°] degrees
B1 for any sector

B2

[4]

M2.(a) radius

B1

(b) chord

B1

(c) tangent

B1

[3]

M3.

(a) Radius

B1

(b) Sector

B1

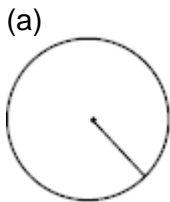
(c) Diameter passes through the centre.
Chord is smaller

AQA GCSE Maths - Circle Properties - Centre, Radius, Chord, Diameter, Circumference

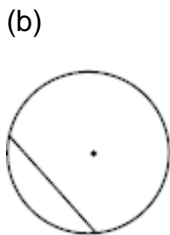
Diameter cuts into equal (half) sections, Chord cuts into unequal sections
Ignore irrelevant statements, correct or otherwise.
Any reference to diameter and/or chord must be correct or B0

B1
[3]

M4.

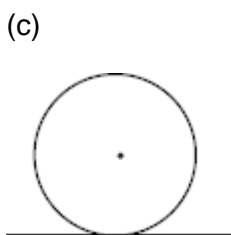


B1



Allow diameter as special case of chord

B1



Allow radius to be drawn in too as long as it touches the tangent

B1
[3]

M5.

No

Yes

(Yes)

No

No

Yes

B1 For each correct part

B5

[5]

M6.A (4, 2)

If no marks awarded, award SC1 for a correct circle drawn with compasses passing through A, B, C and D

B1

B (8, 6)

B1

C (4, 10)

B1

D (0, 6)

B1

[4]

M7.(a) [2.7, 2.9]

If answer in mm, accept [27mm, 29mm]

Ignore further working if answer seen, e.g calculating area or circumference

B1

(b) [5.4, 5.8]

ft their (a) $\times 2$

Ignore further working if answer seen, e.g calculating area or circumference

B1ft

(c) d equals $2r$
oe

or r equals $\frac{1}{2} d$

Accept $d = 2r$

Do not accept $d = r^2$

diameter equals twice radius

radius is half the diameter

B1

[3]