



ACHIEVE ACADEMY

GCSE Maths — Foundation Tier

Area & Perimeter (including Circles) · Practice Booklet

NAME: _____

CLASS: _____

DATE: _____

☐ Developing

☐ Secure

☒ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

Area & Perimeter (including Circles)

Total marks available: 80

● Area & Perimeter (including Circles)

Q1

[2 marks]

Calculate the area of the rectangle below, which has a length of 7cm and a width of 2cm.

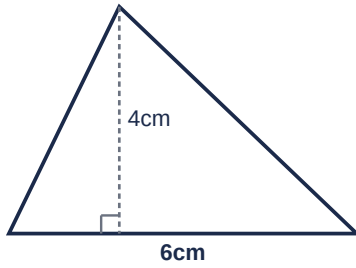


A large dashed rectangular box intended for the student's answer.

Q2

[2 marks]

Calculate the area of the triangle below, which has a base of 6cm and a perpendicular height of 4cm.



Q3

[2 marks]

Calculate the perimeter of the rectangle below, which has a length of 6cm and a width of 2cm.

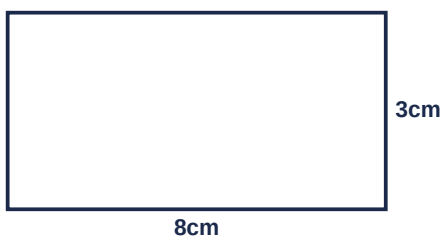


A large dashed rectangular box for writing the answer.

Q4

[2 marks]

Calculate the area of the rectangle below, which has a length of 8cm and a width of 3cm.

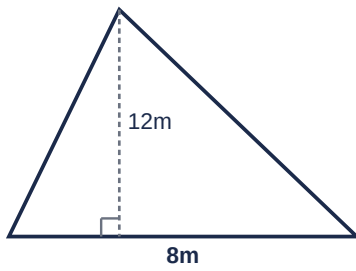


A large dashed rectangular box for writing the answer.

Q5

[2 marks]

Calculate the area of the triangle below, which has a base of 8m and a perpendicular height of 12m.



A large dashed rectangular box for writing the answer.

Q6**[2 marks]**

Calculate the perimeter of the rectangle below, which has a length of 5cm and a width of 4cm.

**Q7****[2 marks]**

Calculate the perimeter of the rectangle below, which has a length of 8m and a width of 2m.



Q8

[2 marks]

Calculate the area of the rectangle below, which has a length of 7cm and a width of 5cm.

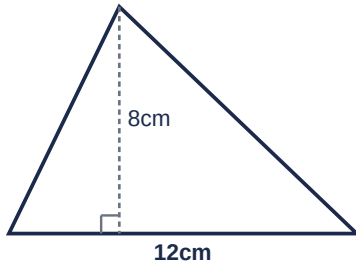


A large dashed rectangular box for writing the answer.

Q9

[2 marks]

Calculate the area of the triangle below, which has a base of 12cm and a perpendicular height of 8cm.



A large dashed rectangular box for writing the answer.

Q10

[2 marks]

Calculate the perimeter of the rectangle below, which has a length of 11m and a width of 5m.

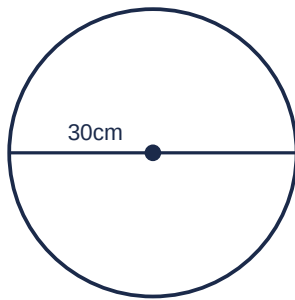


A large dashed rectangular box for writing the answer.

Q11

[3 marks]

The circle below has a diameter of 30cm. Calculate its area, to 1 decimal place.

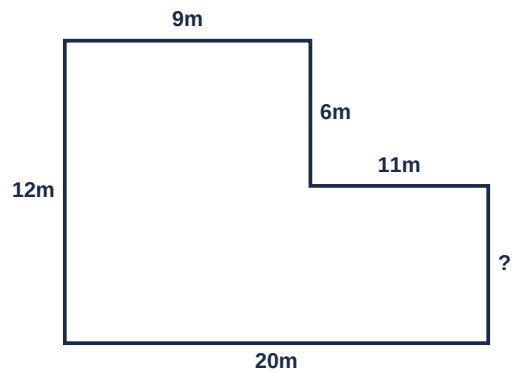


A large rectangular area with a dashed border, intended for the student to show their working out.

Q12

[3 marks]

The L-shaped figure below has the dimensions shown. Calculate its perimeter.

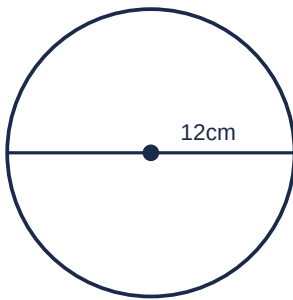


A large dashed rectangular box for writing the answer.

Q13

[3 marks]

The circle below has a diameter of 12cm. Calculate its circumference, to 1 decimal place.

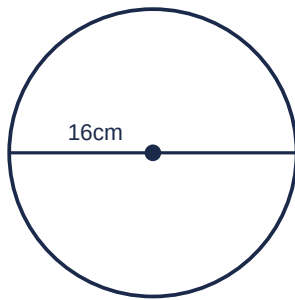


A large rectangular area with a dashed border, intended for the student to show their working out.

Q14

[3 marks]

The circle below has a diameter of 16cm. Calculate its circumference, to 1 decimal place.

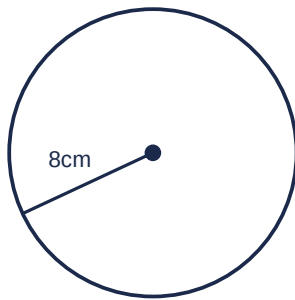


A large rectangular area with a dashed border, intended for the student to show their working out.

Q15

[3 marks]

The circle below has a radius of 8cm. Calculate its circumference, to 1 decimal place.

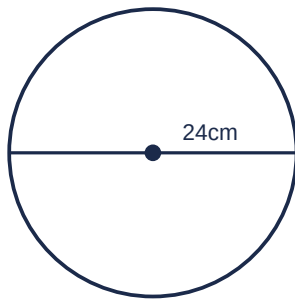


A large dashed rectangular box for writing the answer.

Q16

[3 marks]

The circle below has a diameter of 24cm. Calculate its circumference, to 1 decimal place.

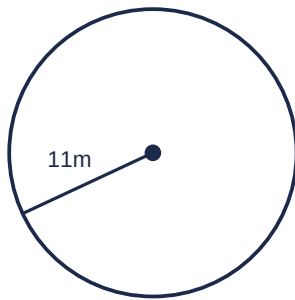


A large rectangular area with a dashed border, intended for the student to show their working out.

Q17

[3 marks]

The circle below has a radius of 11m. Calculate its area, to 1 decimal place.

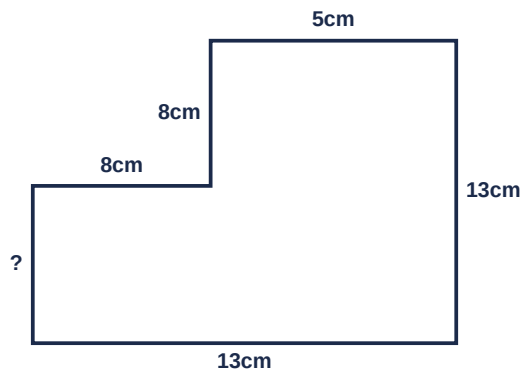


A large dashed rectangular box for writing the answer.

Q18

[3 marks]

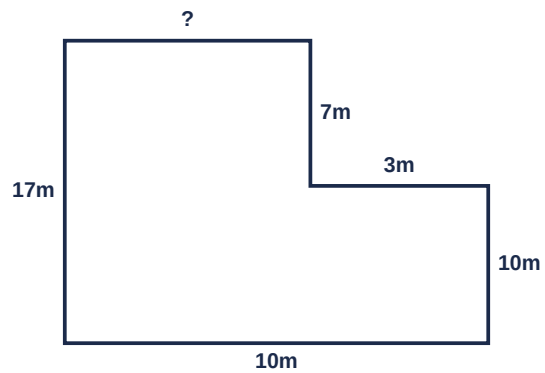
The L-shaped figure below has the dimensions shown. Calculate its perimeter.



Q19

[3 marks]

The L-shaped figure below has the dimensions shown. Calculate its area.

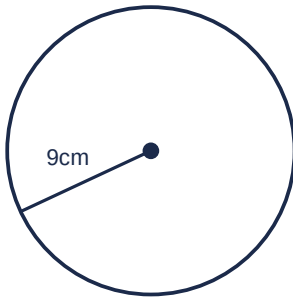


A large dashed rectangular box for writing the answer.

Q20

[3 marks]

The circle below has a radius of 9cm. Calculate its circumference, to 1 decimal place.

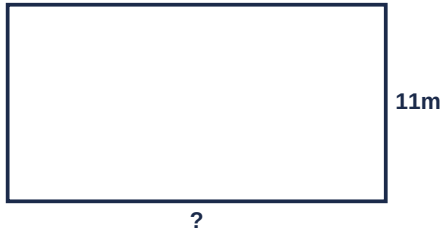


A large rectangular area with a dashed border, intended for the student to show their working out.

Q21

[3 marks]

A rectangle has an area of 110m^2 and a width of 11m . Calculate its length, marked with a question mark.

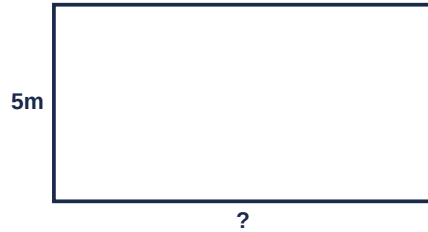


A large dashed rectangular box for working space.

Q22

[3 marks]

A rectangle has an area of 90m^2 and a width of 5m . Calculate its length, marked with a question mark.

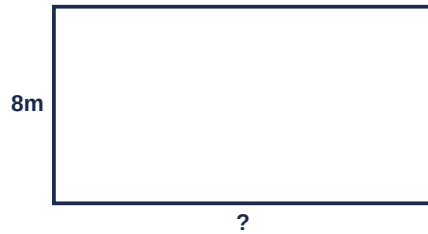


A large dashed rectangular box for writing the answer.

Q23

[3 marks]

A rectangle has an area of 72m^2 and a width of 8m . Calculate its length, marked with a question mark.

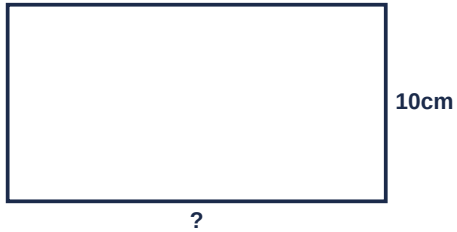


A large dashed rectangular box for writing the answer.

Q24

[3 marks]

A rectangle has an area of 180cm^2 and a width of 10cm . Calculate its length, marked with a question mark.

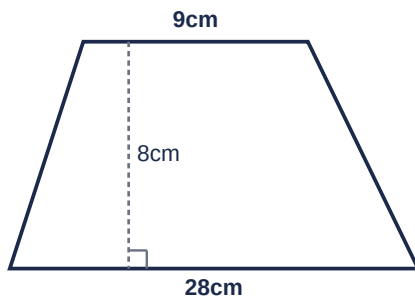


A large dashed rectangular box for working space.

Q25

[3 marks]

The trapezium below has parallel sides of 9cm and 28cm, and a perpendicular height of 8cm. Calculate its area.

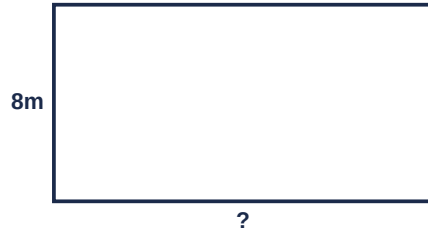


A large dashed rectangular box for writing the answer.

Q26

[3 marks]

A rectangle has an area of 80m^2 and a width of 8m . Calculate its length, marked with a question mark.

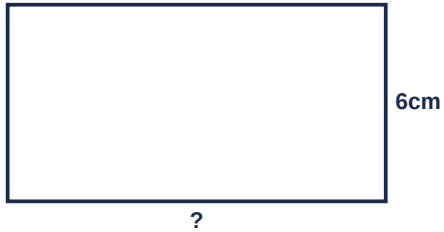


A large dashed rectangular box for writing the answer.

Q27

[3 marks]

A rectangle has an area of 120cm^2 and a width of 6cm . Calculate its length, marked with a question mark.

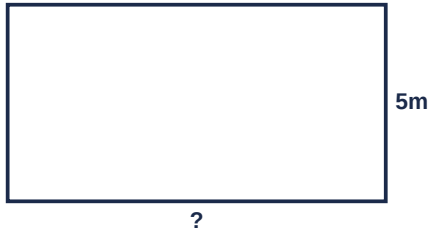


A large dashed rectangular box for working space.

Q28

[3 marks]

A rectangle has an area of 20m^2 and a width of 5m . Calculate its length, marked with a question mark.

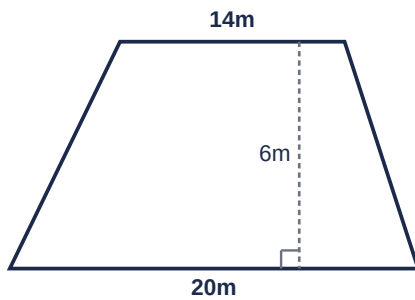


A large dashed rectangular box for working space.

Q29

[3 marks]

The trapezium below has parallel sides of 14m and 20m, and a perpendicular height of 6m. Calculate its area.

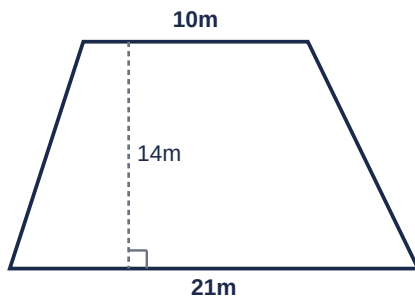


A large rectangular area with a dashed border, intended for the student to show their working out for calculating the area of the trapezium.

Q30

[3 marks]

The trapezium below has parallel sides of 10m and 21m, and a perpendicular height of 14m. Calculate its area.



A large dashed rectangular box for writing the answer.