



THIRD SPACE  
LEARNING

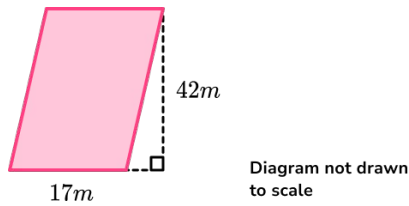
# GCSE Exam Questions

Area of a Parallelogram |  
Geometry & Measure

## GCSE Exam Questions: Area of a Parallelogram

- 1) (a) Find the area of the parallelogram.

Remember to show your full working.



-----  
(2)

- (b) What is the area of the shape in square centimetres?

-----  
(2)  
(4 marks)

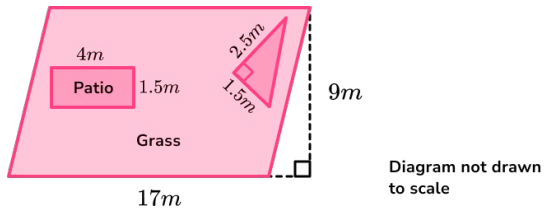
- 2) Calculate the value of  $x$  in the diagram.



-----  
(3 marks)

## GCSE Exam Questions: Area of a Parallelogram

- 3) (a) A landscaper is planning a garden shaped as a parallelogram for a client. The client would like a wooden patio in the middle and a triangular shaped sandpit. The rest of the garden will be covered in grass. What is the area of the grass?

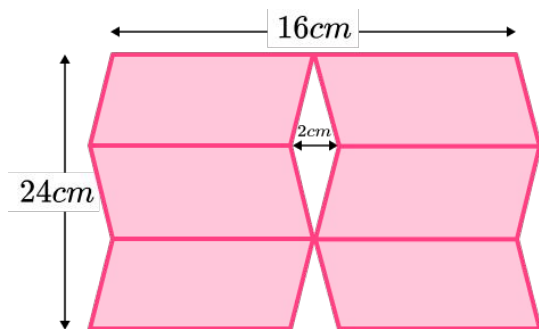


(3)

- (b) An individual roll of grass covers 4 square metres and costs £12.50. How much will it cost to cover the garden?

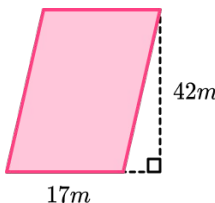
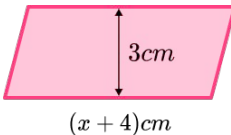
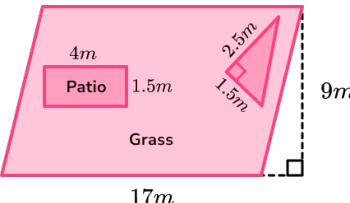
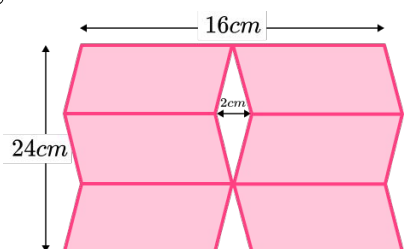
(2)  
(5 marks)

- 4) A pattern is made with 6 congruent parallelograms. Find the area of the shaded region.



(2 marks)

# GCSE Exam Questions: Area of a Parallelogram Answers

|        | Question   | Answer   | Marks                     |
|--------|--|--|---------------------------|
| 1) (a) | Find the area of the parallelogram.<br>Remember to show your full working.<br><br>17m 42m<br>Diagram not drawn to scale   | (a) $42 \times 17$<br><br>$714m^2$   | (1)<br><br>(1)            |
| (b)    | What is the area of the shape in square centimetres?   | (b) $714 \times 10000$<br><br>$7,140,000cm^2$  | (1)<br><br>(1)            |
| 2)     | Calculate the value of x in the diagram.?<br><br>3cm Area = $24cm^2$<br>(x + 4)cm<br>Diagram not drawn to scale   | $3(x + 4) = 24$ <b>or</b><br>$3x + 12 = 24$<br><br>$3x = 12$<br><br>$x = 4$  | (1)<br><br>(1)<br><br>(1) |
| 3) (a) | A landscaper is planning a garden shaped as a parallelogram for a client. The client would like a wooden patio in the middle and a triangular shaped sandpit. The rest of the garden will be covered in grass. What is the area of the grass?<br><br>4m 1.5m 2.5m 1.5m 9m<br>Patio Grass<br>17m<br>Diagram not drawn to scale | (a) $17 \times 9 = 153$<br><br>$4 \times 1.5 = 6$ <b>or</b><br>$\frac{1}{2} \times 2.5 \times 1.5 = 1.875$<br><br>$153 - 6 - 1.875 = 145.125m^2$ | (1)<br><br>(1)<br><br>(1) |
| (b)    | An individual roll of grass covers 4 square metres and costs £12.50. How much will it cost to carpet the garden?   | (b) $145.125 \div 4 = 36.28125$<br><br>$37 \times 12.50 = £462.50$   | (1)<br><br>(1)            |
| 4)     | A pattern is made with 6 congruent parallelograms. Find the area of the shaded region.<br><br>16cm 24cm 2cm   | $16 \times 24$<br><br>$384cm^2$  | (1)<br><br>(1)            |

# Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

## Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit [thirdspacelearning.com](https://thirdspacelearning.com) to find out more.