

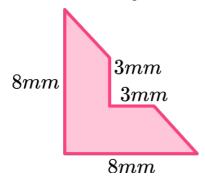
GCSE Exam Questions

How to Work Out Area | Geometry & Measure



GCSE Exam Questions: How to Work Out Area

1) Work out the area of the hexagon below:



.....

(3 marks)

2) (a) The allowed occupancy of room can be calculated using the following information:

Use of room	Required m ² /person	
Standing	0.3	
Dancing	0.5	
Seated	1.2	

Lucy is planning a school disco. The hall measures 16m by 9m.

How many people can the hall accommodate for dancing at the disco?

(2)

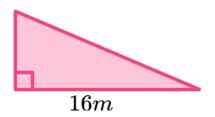
(b) Lucy pays £100 to hire the hall. If Lucy sells the maximum number of tickets allowed for £3 each, how much profit will she make?

> (2) (4 marks)



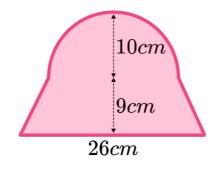
GCSE Exam Questions: How to Work Out Area

3) The area of this triangle is $40m^2$. Work out the height of the triangle.



(3 marks)

4) Work out the area of this shape:



(5 marks)



GCSE Exam Questions: How to Work Out Area Answers

	Question Work out the area of the hexagon below: 8mm 3mm 3mm 8mm		An	Answer	
1)				Big triangle: $\frac{1}{2} \times 8 \times 8 = 32mm^2$ Small triangle: $\frac{1}{2} \times 3 \times 3 = 4.5mm^2$ $32 - 4.5 = 27.5mm^2$	(1) (1) (1)
2) (a)	Use of room Standing Dancing Seated Lucy is planning a s	following information: Required m²/person 0.3 0.5 1.2 chool disco. The hall n. How many people can	(a)	$16 \times 9 = 144$ $144 \div 0.5 = 288$	(1) (1)
(b)	Lucy pays £100 to hire the hall. If Lucy sells the maximum number of tickets allowed for £3 each, how much profit will she make?			$288 \times 3 = \pounds 864$ $\pounds 864 - \pounds 100 = \pounds 764$	(1) (1)
3)	The area of this triangle is $40m^2$. Work out the height of the triangle. 16m			$\frac{1}{2} \times 16 \times h = 40$ $8h = 40$ $h = 5m$	(1) (1) (1)



GCSE Exam Questions: How to Work Out Area Answers

	Question	Answer	
4)	Work out the area of this shape	Top of trapezium $= 20cm$	(1)
	10cm 9cm 26cm	Area of trapezium: $\frac{1}{2}(20 + 26) \times 9 = 207cm^{2}$ Area of semi-circle: $\frac{\pi \times 10^{2}}{2}$	(1)
		Area of semi-circle: $157.08cm^2$ Total area: $207 + 157.08 = 364cm^2$	(1)(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 <u>GCSE maths revision</u> 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 <u>thirdspacelearning.com</u> to find out more.

