



THIRD SPACE
LEARNING

GCSE Exam Questions

Area of a Quadrilateral |
Geometry & Measure

GCSE Exam Questions: Area of a Quadrilateral

- 1) (a) Ann's patio is $4m$ long by $3.5m$ wide. Calculate the area of the patio.

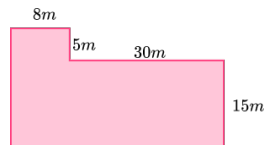
(1)

- (b) Patio slabs are $40cm \times 70cm$. They come in packs of 8. Each pack costs £22.50.
How much will it cost Ann to buy enough new slabs to cover her patio?

(4)

(5 marks)

- 2) (a) Daniel is going to put some sheep in a field. Each sheep requires $40m^2$ for grazing.
How many sheep can Daniel have in his field?



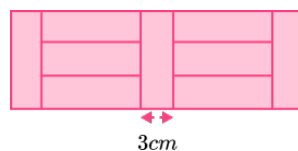
(2)

- (b) Goats require $35 m^2$ for grazing. How many more goats than sheep could Daniel keep in the same field?

(2)

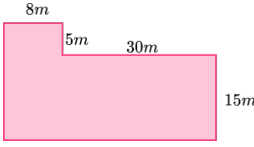
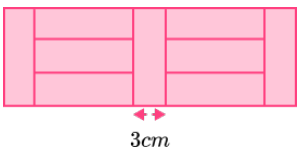
(4 marks)

- 3) The pattern below is made from 9 identical rectangles. Find the total area of the pattern.



(4 marks)

GCSE Exam Questions: Area of a Quadrilateral Answers

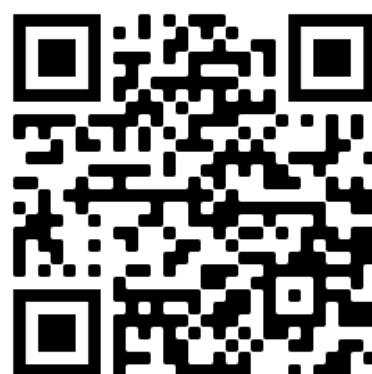
	Question	Answer	Marks
1) (a)	Ann's patio is $4m$ long by $3.5m$ wide. Calculate the area of the patio.	(a) $4 \times 3.5 = 14m^2$	(1)
(b)	Patio slabs are $40cm \times 70cm$. They come in packs of 8. Each pack costs £22.50. How much will it cost Ann to buy enough new slabs to cover her patio?	(b) Area of each tile: $0.4 \times 0.7 = 0.28cm^2$ Number of tiles: $14 \div 0.28 = 50$ Number of packs: $50 \div 8 = 6.25$ (7 packs) Total cost: $7 \times 22.5 = £157.50$	(1) (1) (1) (1)
2) (a)	Daniel is going to put some sheep in a field. Each sheep requires $40m^2$ for grazing. How many sheep can Daniel have in his field? 	(a) $8 \times 5 = 40$ $38 \times 15 = 570$ $570 + 40 = 610m^2$ $610 \div 40 = 15.25$ He can have 15 sheep.	(1) (1) (1) (1)
(b)	Goats require $35m^2$ for grazing. How many more goats than sheep could Daniel keep in the same field?	(b) $610 \div 35 = 17.42857...$ (17 goats) $17 - 15 = 2$ goats	(1) (1)
3)	The pattern below is made from 9 identical rectangles. Find the total area of the pattern. 	(b) Height of one tile: $3 \times 3 = 9cm$ Area of each tile: $3 \times 9 = 27cm^2$ Total area: $9 \times 27 = 243cm^2$	(1) (1) (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 [GCSE maths revision](#) pages.

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