



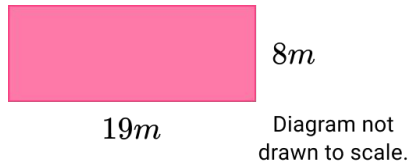
THIRD SPACE
LEARNING

GCSE Exam Questions

Area of a Rectangle | Geometry
& Measure

GCSE Exam Questions: Area of a Rectangle

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



(2)

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

(2)

(4 marks)

- 2) (a) Mr. McDonald is a farmer. He keeps his cattle in a field which is 28m by 14m. Each cattle needs a minimum of 5 square metres to graze. What is the maximum number of cattle Mr. McDonald can keep?

(3)

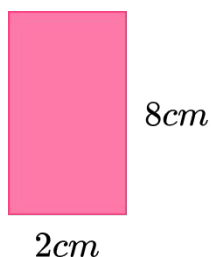
- (b) Mr. McDonald changes his mind and decides to keep sheep in the field instead. Each sheep needs 3 square metres to graze. What is the maximum number of sheep he can keep?

(2)

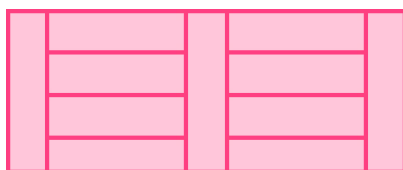
(5 marks)

GCSE Exam Questions: Area of a Rectangle

- 3) (a) A rectangle measures 8cm by 2cm.



11 of these rectangles are connected to form the pattern below:



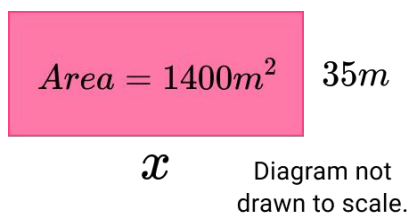
What is the area of the pattern?

(2)

- (b) Work out the perimeter of the above pattern.

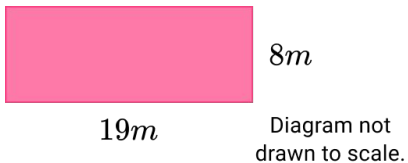
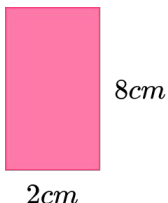
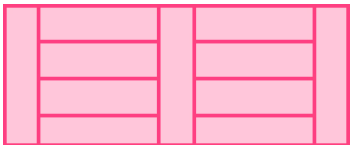
(2)
(4 marks)

- 4) Calculate the value of x in the diagram.

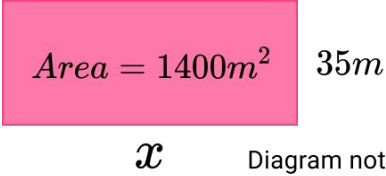


(2 marks)

GCSE Exam Questions: Area of a Rectangle Answers

| | Question | Answer | Marks |
|---------------|---|--|--|
| 1) (a) | Find the area of the rectangle. Remember to show your full working.  | (a) 19×8 $152m^2$ | (1) (1) |
| (b) | What is the area of the shape in square centimetres? | (b) 1900×800 $1,520,000cm^2$ | (1) (1) |
| 2) (a) | Mr. McDonald is a farmer. He keeps his cattle in a field which is 28m by 14m. Each cattle needs a minimum of 5 square metres to graze. What is the maximum number of cattle Mr. McDonald can keep? | (a) $28 \times 14 = 392m^2$ $392 \div 5 = 78.4$ 78 cattle | (1) (1) (1) |
| (b) | Mr. McDonald changes his mind and decides to keep sheep in the field instead. Each sheep needs 3 square metres to graze. What is the maximum number of sheep he can keep? | (b) $392 \div 3 = 130.6$ Max = 130 sheep | (1) (1) |
| 3) (a) | A rectangle is 8cm by 2cm.  11 of these rectangles are connected to form the pattern below:  What is the area of the pattern? | (a) $8 \times 2 = 16$ $16 \times 11 = 176cm^2$ | (1) (1) |
| (b) | Work out the perimeter of the above pattern. | (b) $P = (6 \times 8) + (6 \times 2)$ $P = 60cm$ | (1) (1) |

GCSE Exam Questions: Area of a Rectangle Answers

| | Question | Answer | Marks |
|----|--|-----------------------------|--------------------------|
| 4) | Calculate the value of x in the diagram.  <p>Diagram not drawn to scale.</p> | $1400 \div 35$ $x = 40m$ | (1) (1) |

Where to go next?

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