



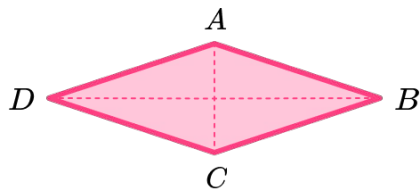
THIRD SPACE
LEARNING

GCSE Exam Questions

Area of a Rhombus | Geometry
& Measure

GCSE Exam Questions: Area of a Rhombus

- 1) (a) Shown on the right is a rhombus. Work out the area of the rhombus.



$$AC = 13m, DB = 15m$$

Diagram not drawn to scale.

(2)

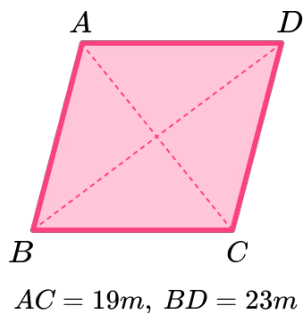
- (b) What is the area of the rhombus in square centimetres?

(2)
(4 marks)

- 2) (a) Mr. Perry owns a farm and is looking to make the cattle enclosure shown below.

Each cattle needs 5 square metres to move around freely.

What is the maximum number of cattle that can fit into the enclosure?



$$AC = 19m, BD = 23m$$

(4)

- (b) Each cattle costs £450 to acquire.

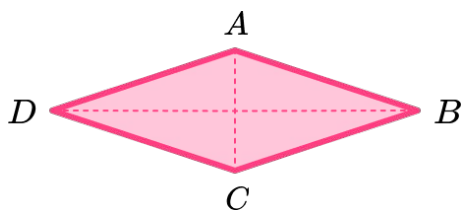
How much would it cost to buy all the cattle that can fit?

(2)
(6 marks)

GCSE Exam Questions: Area of a Rhombus

- 3) (a) In the rhombus below, $AC = 10\text{m}$ and $DB = 12\text{m}$.

Find the area of the rhombus.



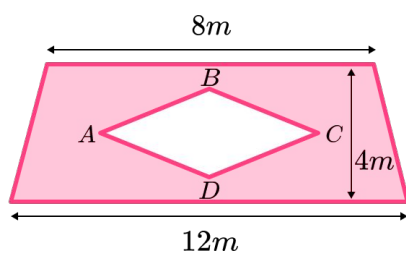
(2)

- (b) Work out the perimeter of the rhombus.

(3)
(5 marks)

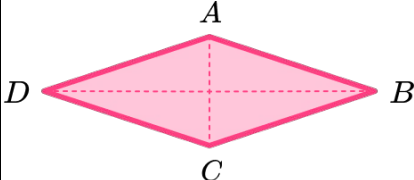
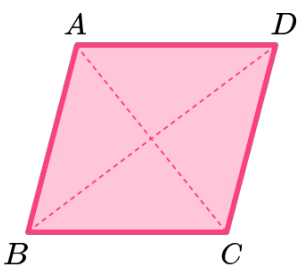
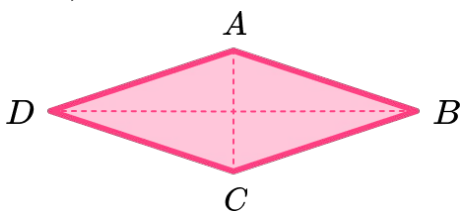
- 4) Work out the area of the shaded region in the diagram.

$BD = 3\text{m}$ and $AC = 6\text{m}$.

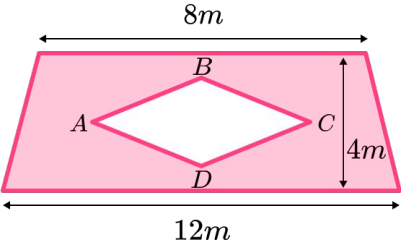


(3 marks)

GCSE Exam Questions: Area of a Rhombus Answers

	Question	Answer	Marks
1) (a)	Shown on the right is a rhombus.  $AC = 13m$, $DB = 15m$ Diagram not drawn to scale. Work out the area of the rhombus.	(a) $\frac{13 \times 15}{2}$ oe $97.5m^2$	(1) (1)
(b)	What is the area of the rhombus in square centimetres?	(b) 97.5×100^2 $975\,000cm^2$	(1) (1)
2) (a)	Mr. Perry owns a farm and is looking to make the cattle enclosure shown below. Each cattle needs 5 square metres to move around freely. What is the maximum number of cattle that can fit into the enclosure?  $AC = 19m$, $BD = 23m$	(a) $\frac{19 \times 23}{2}$ oe 218.5 oe $218.5 \div 5$ or 43.7 43 cattle	(1) (1) (1) (1)
(b)	Each cattle costs £450 to acquire. How much would it cost to buy all the cattle that can fit?	(b) 450×43 £19 350	(1) (1)
3) (a)	In the rhombus on the right $AC = 10m$, $DB = 12m$.  Find the area of the rhombus.	(a) $\frac{10 \times 12}{2}$ oe $60m^2$	(1) (1)
(b)	Work out the perimeter of the rhombus.	(b) $\sqrt{5^2 + 6^2}$ or $\sqrt{61}$ oe 7.81×4 $4\sqrt{61}m$ or $31.24m$	(1) (1) (1)

GCSE Exam Questions: Area of a Rhombus Answers

	Question	Answer	Marks
4)	Work out the area of the shaded region in the diagram. $BD = 3\text{cm}$ and $AC = 6\text{cm}$. 	$\frac{12 + 8}{2} \times 4 = 40$ $\frac{3 \times 6}{2} = 9$ $40 - 9$ 31m^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.

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 to find out more.