



THIRD SPACE
LEARNING

GCSE Exam Questions

Converting Units of Area and
Volume | Ratio & Proportion

GCSE Exam Questions: Converting Units of Area and Volume

1) (a) Write $24m^2$ in cm^2 .

(2)

(b) Write $440mm^2$ in m^2 .

(2)
(4 marks)

2) (a) Write $7m^3$ in cm^3 .

(2)

(b) Write $90000mm^3$ in m^3 .

(2)
(4 marks)

GCSE Exam Questions: Converting Units of Area and Volume

- 3) (a) A fence with an area of $60m^2$ needs to be painted.

Each tin of paint covers an area of $50000cm^2$.

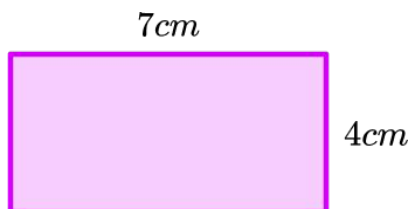
How many tins of paint will be needed to cover the entire fence?

(2)

- (a) If each tin costs £6.50, how much will it cost to cover the entire fence?

(2)
(4 marks)

- 4) (a) Find the area of the rectangle. Give your answer in cm^2



(2)

- (b) Convert your answer in (a) to m^2

(2)
(4 marks)

GCSE Exam Questions: Converting Units of Area and Volume Answers

	Question	Answer	Marks
1) (a)	Write $24m^2$ in cm^2 .	(a) 24×100^2 $240,000cm^2$	(1) (1)
(b)	Write $440mm^2$ in m^2 .	(b) $440 \div 1000^2$ $0.00044m^2$	(1) (1)
2) (a)	Write $7m^3$ in cm^3 .	(a) 7×100^3 $7,000,000cm^3$	(1) (1)
(b)	Write $90000mm^3$ in m^3 .	(b) $90\,000 \div 1\,000^3$ $0.00009m^3$	(1) (1)
3) (a)	A fence with an area of $60m^2$ needs to be painted. Each tin of paint covers an area of $50000cm^2$. How many tins of paint will be needed to cover the entire fence?	(a) $60 \times 100^2 = 600,000$ $600,000 \div 50,000$ 12 tins	(1) (1)
(b)	If each tin costs £6.50, how much will it cost to cover the entire fence?	(b) 12×6.50 £78	(1) (1)
4) (a)	Find the area of the rectangle. Give your answer in cm^2 $7cm$  $4cm$	(a) 7×4 $28cm^2$	(1) (1)
(b)	Convert your answer in (a) to m^2	(b) $28cm^2 \div 10,000$ $0.0028m^2$	(1) (1)

Where to go next?

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