



THIRD SPACE  
LEARNING

# GCSE Exam Questions

Unitary Method | Ratio &  
Proportion

## GCSE Exam Questions: Unitary Method

- 1) A shopkeeper buys sacks of potatoes from a local farmer to sell in their shop.

3 sacks of carrots cost £12.

How much would 5 sacks of carrots cost?

£ .....

(2 marks)

- 2) Given that 5 miles  $\approx$  8 km, convert 17 miles to km.

..... km

(2 marks)

- 3) Fruit crumble is made using these ingredients:

The fruit crumble is for 6 people

500 g fruit

200 g sugar

120 g flour

30 g butter

- (a) Anita makes a fruit crumble for 12 people, how much sugar does she use?

..... g

(1)

- (b) Bali makes a fruit crumble for 15 people, how much flour does he use?

..... g

(2)

(3 marks)

## GCSE Exam Questions: Unitary Method

- 4) A swimming pool can be filled in 16 hours with 4 taps.  
If one of the taps is broken, how long does it take to fill the swimming pool?  
Write your answer in hours and minutes.

----- hours ----- minutes

(3)

## GCSE Exam Questions: Unitary Method Answers

	Question	Answer	Marks
<b>1)</b>	A shopkeeper buys sacks of potatoes from a local farmer to sell in their shop. 3 sacks of carrots cost £12. How much would 5 sacks of carrots cost?	$12 \div 3 \times 5$ £20	<b>(1)</b> <b>(1)</b>
<b>2)</b>	Given that 5 miles $\approx$ 8 km, convert 17 miles to km.	$8 \div 5 \times 17$ 27.2 km	<b>(1)</b> <b>(1)</b>
<b>3) (a)</b>	Fruit crumble is made using these ingredients:  500 g fruit 200 g sugar 120 g flour 30 g butter  The fruit crumble is for 6 people Anita makes a fruit crumble for 12 people, how much sugar does she use?	<b>(a)</b> 400 g	<b>(1)</b>
<b>(b)</b>	Bali makes a fruit crumble for 15 people, how much flour does he use?	<b>(b)</b> $120 \div 6 \times 15$ 300 g	<b>(1)</b> <b>(1)</b>
<b>4)</b>	A swimming pool can be filled in 16 hours with 4 taps. If one of the taps is broken, how long does it take to fill the swimming pool? Write your answer in hours and minutes.	$4 \times 16 \div 3$ 21.3 hours <b>oe</b> 21 hours 20 minutes	<b>(1)</b> <b>(1)</b> <b>(1)</b>

# 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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