

Q1.

Lara chooses a number less than 100

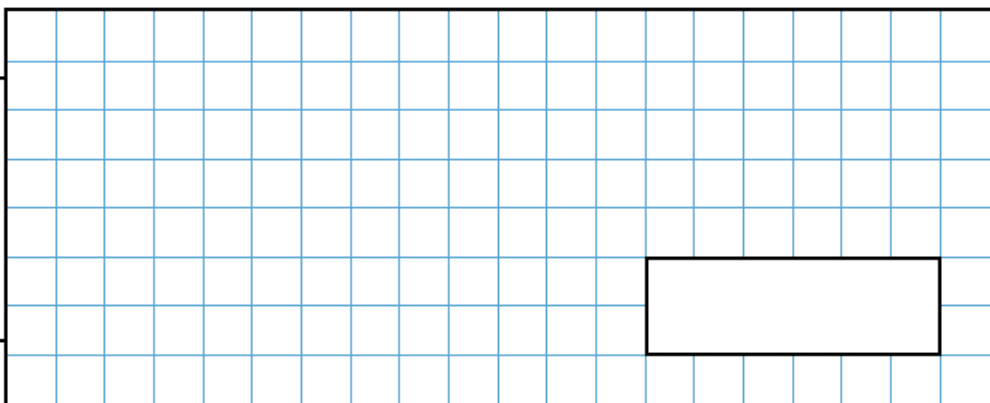
She divides it by 3 and then subtracts 11

She then divides this result by 2

Her answer is 10.5

What was the number she started with?

Show your method

A large rectangular grid with a blue border and a light blue grid pattern. On the left side, there is a rounded rectangular box containing the text "Show your method". On the right side, there is a smaller rectangular box for the answer.

2 marks

Q2.

Ben thinks of a number.

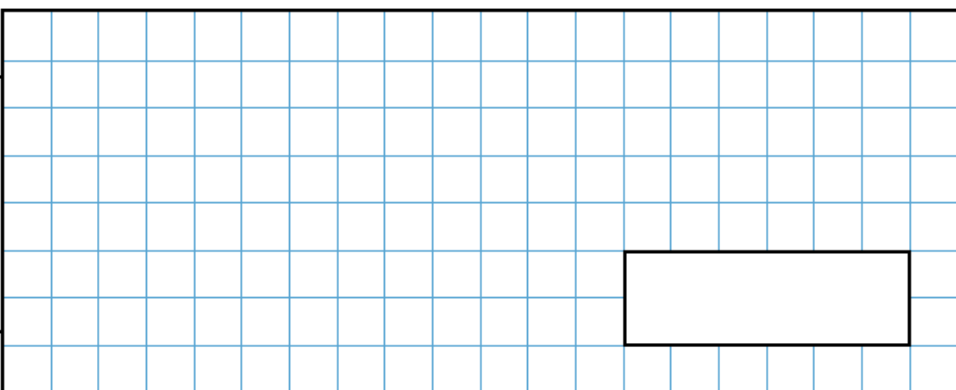


He adds half of the number to a quarter of the number.

The result is 60

What was the number Ben first thought of?

Show your method

A large rectangular grid with a blue border and a light blue grid pattern. On the left side, there is a rounded rectangular box containing the text "Show your method". On the right side, there is a smaller rectangular box for the answer.

2 marks

Q3.



Liam thinks of a number.

He **multiplies the number by 5** and then **subtracts 60** from the result.

His answer equals the number he started with.

What was the number Liam started with?

Show your method

2 marks

Q4.

Josh thinks of a number.



He adds 4

He multiplies his result by 3

Then he takes away 9

His final answer is 90

What number did Josh start with?

1 mark

Q5.

Emily chooses two numbers.



She adds the two numbers together and divides the result by 2

Her answer is 44

One of Emily's numbers is 12

What is Emily's other number?

Show your method

2 marks

Q6.

Amy thought of a number.

She added 0.5 to her number and then doubled the result.

Then she subtracted 0.5 and doubled the new result.

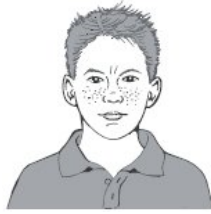
Her final answer was 61

What number did Amy start with?

11/11/2019

Q7.

Liam thinks of a number.

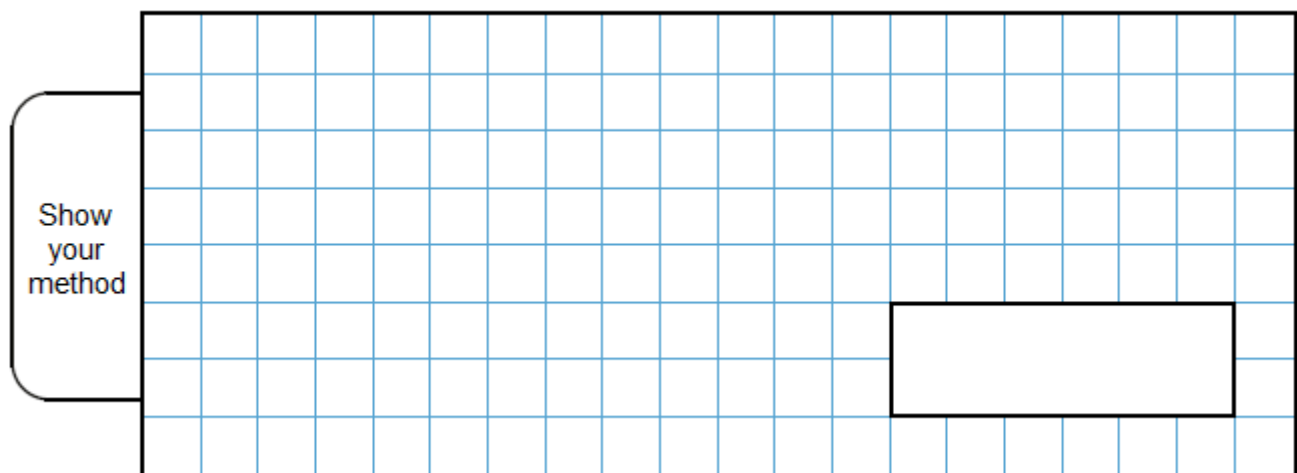


He divides it by 9 and then adds 25 to the result.

His answer is 36

What number did Liam start with?

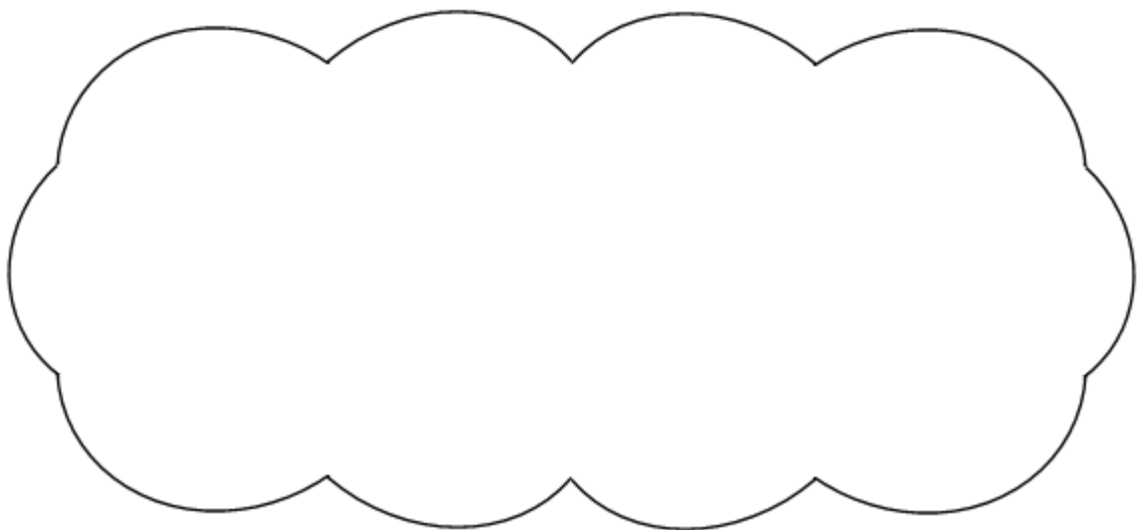
Show your method



Q8.

$$5,542 \div 17 = 326$$

Explain how you can use this fact to find the answer to **18×326**



1 mark

Q9.

Lara had some money.

She spent £1.25 on a drink.

She spent £1.60 on a sandwich.

She has **three-quarters** of her money left.

How much money did Lara have to **start with**?

Show
your
method

£

Q10.

Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

Her answer is 4.5

What was the number she started with?

Show
your
method

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2 marks

M1. Award **TWO** marks for the correct answer of 96

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- $10.5 \times 2 = 21$
 $21 + 11 = 32$
 32×3

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

M2. Award **TWO** marks for the correct answer of 80

[2]

M3. Award **TWO** marks for the correct answer of 15

Up to 2 (U1)

[2]

M4. 29

[1]

M5. Award **TWO** marks for the correct answer of 76

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

$$44 \times 2 = 88$$
$$88 - 12$$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

M6. Award **TWO** marks for the correct answer of 15

M7. Award **TWO** marks for the correct answer of 99

[2]

M8.

An explanation that shows that 5,868 can be made by adding 326 to 17×326 , e.g.

- '5542 + 326 = 18×326 '
- '18 \times 326 is 326 more than 5,542'
- 'Because this is the same as $17 \times 326 = 5542$ so add one more 326 to get the answer'
- 'You add 326 to 5,542 and your answer will be correct'
- 'Because you can add 326 to the answer of 17×326 '
- '5542 + 326'.

M9.

Award **TWO** marks for the correct answer of £11.40.

M10.

Award **TWO** marks for the correct answer of 15.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $4.5 \times 3 = 13.5$
 $13.5 - 6 = 7.5$
 7.5×2