Number Operations and Place Value

Place value, factors, multiples and number properties are the building blocks for every other area of KS3 maths — get these solid first!

For each question below, tick (✓) Yes or No for Henry's number.

	Yes	No
Is it an **even** number?		
Is it a **multiple of 3**?		
Is it a **factor of 18**?		

1 mark

(b) Ashraf also thinks of a number **between 1 and 20**

The table shows information about his number.

	Yes	No
Is it an **even** number?		✓
Is it a **multiple of 3**?	✓	
Is it a **factor of 18**?		✓

What is Ashraf's number?

1 mark

KS3 Maths SATs, Tier 3-5, Paper 1 (2008) - Q14

5. (a) You can make six different numbers using these three digit cards:

3	5	7

Complete the list to show the six different numbers.

357
375

1 mark

(b) From the list, write down the **smallest** number and the **biggest** number, then **add** them together.

.....

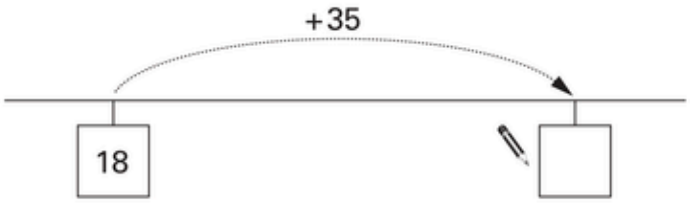
1 mark

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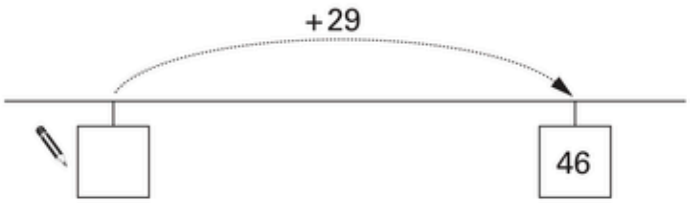
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Modern Tuition

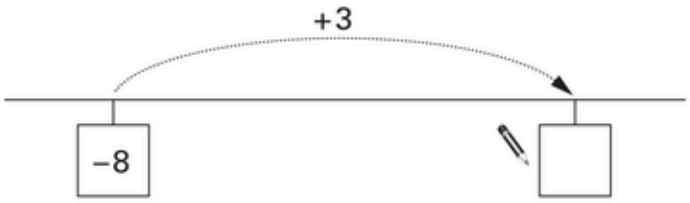
Write the missing numbers on the number lines.



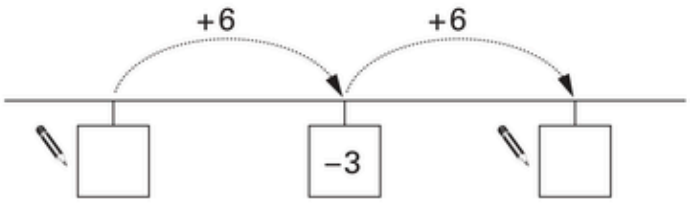
1 mark



1 mark



1 mark



2 marks

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A three-digit number is **multiplied** by a two-digit number.

How many digits could the answer have?

Write the minimum number and the maximum number of digits that the answer could have.

You **must** show your working.



minimum number of digits .....

maximum number of digits .....

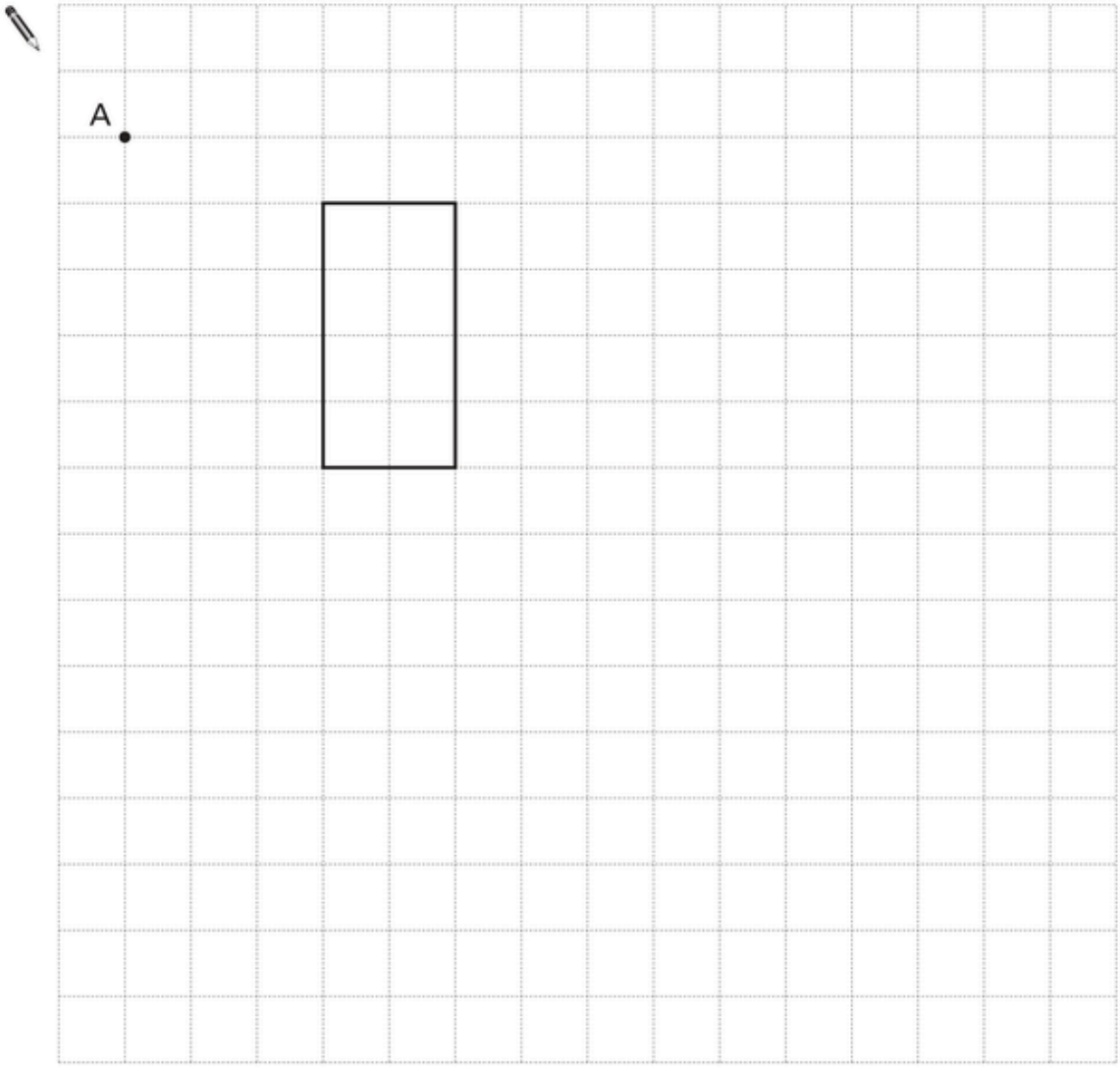
2 marks

Modern Tuition

Look at the rectangle drawn on a square grid.

Draw an **enlargement** of this rectangle with **scale factor 2**

Use **point A** as the **centre** of enlargement.



2 marks

Modern Tuition