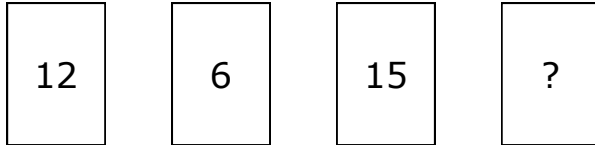


How to ...

Ed has 4 cards.

There is a number on each card.



The mean of the 4 numbers on Ed's cards is 10.

Work out the number on the 4th card.

*if the mean of 4 cards = 10
the total must = 40 (4 × 10)*

$$12 + 6 + 15 = 33$$

$$40 - 33 = 7$$

The number on the 4th card = 7


Note: this could have been done algebraically⁽³⁾

$$\frac{12 + 6 + 15 + ?}{4} = 10 \quad 33 + ? = 40$$


$$? = 40 - 33 = \underline{\underline{7}}$$

Now have a go yourself ...


SORTED IT

- 
- Find two numbers with a median of 14 and a range of 8.
 - Find three numbers with a mode of 15 and a range of 24
 - Find two numbers with a mean of 23 and a range of 18.

NAILED IT

- 
- Find three numbers with a mode of 18 and a mean of 25.
 - Find two numbers with a median of 13 and a range of 2.
 - Find four numbers with a mode of 3, a median of 6 and a mean of 8

MASTERED IT

- 
- Find three numbers with a median of 7, a range of 18 and a mean of 11.
 - Find four numbers with a mode of 16, a median of 19.5 and a range of 13.
 - Find four numbers with a mode of 20, a range of 11 and a mean of 16

Exam Questions

Q1. Peter rolled a 6-sided dice ten times. Here are the scores:

3 2 4 6 3 3 4 2 5 4

- a) work out the median of his scores
- b) work out the mean of his scores
- c) work out the range of his scores.

Q2. The mean of eight numbers is 41. The mean of two of the numbers is 29. What is the mean of the other six numbers?

Q3. Here are four lengths.

38 cm 49 cm 53 cm 72 cm

Show that one length is the mean of the other three.

Ready to be marked ?

Checklist



- Answer checked
- Working out shown



Keywords



Things to remember ...



What went well ...

Teacher comment ..