Name: SOLUTIONS

GCSE (1 - 9)

Reverse Mean

Buy me a coffee

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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Autumn 2021*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk
These worksheets were made using examq.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 1H, Q7
2	Edexcel, GCSE, Autumn 2019, Paper 1H, Q6
3	Edexcel, GCSE, Autumn 2020, Paper 3H, Q7

1

There are 10 boys and 20 girls in a class.
The class has a test.

The mean mark for all the class is 60
The mean mark for the girls is 54

Work out the mean mark for the boys.

10 + 20 = 30 in class.

class total = 30 × 60 = 1800

girl total = 20 × 54 = 1080

boy total = 1800 − 1080 = 720

$$\text{boy mean} = \frac{720}{10} = 72$$

72

(Total for Question 7 is 3 marks)

[Edexcel, GCSE, Summer 2017, Paper 1H, Q7]

2

4 red bricks have a mean weight of 5 kg.
5 blue bricks have a mean weight of 9 kg.
1 green brick has a weight of 6 kg.

Donna says,

"The mean weight of the 10 bricks is less than 7 kg."

Is Donna correct?
You must show how you get your answer.

Red Brick Total = $4 \times 5 = 20$

Blue Brick Total = $5 \times 9 = 45$

Green Brick Total = $1 \times 6 = 6$

Total of all 10 bricks = $20 + 45 + 6 = 71$

Mean of all 10 bricks = $71 \div 10 = 7.1$

No. Donna is incorrect

(Total for Question 6 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1H, Q6]

3

There is a total of 45 boys and girls in a choir.

The mean age of the 18 boys is 16.2 years.
The mean age of the 27 girls is 16.7 years.

Calculate the mean age of all 45 boys and girls.

Boys Total = $18 \times 16.2 = 291.6$

Girls Total = $27 \times 16.7 = 450.9$

Overall Total = $291.6 + 450.9 = 742.5$

Mean Age = $\frac{742.5}{45} = 16.5$

16.5 years

(Total for Question 7 is 3 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3H, Q7]