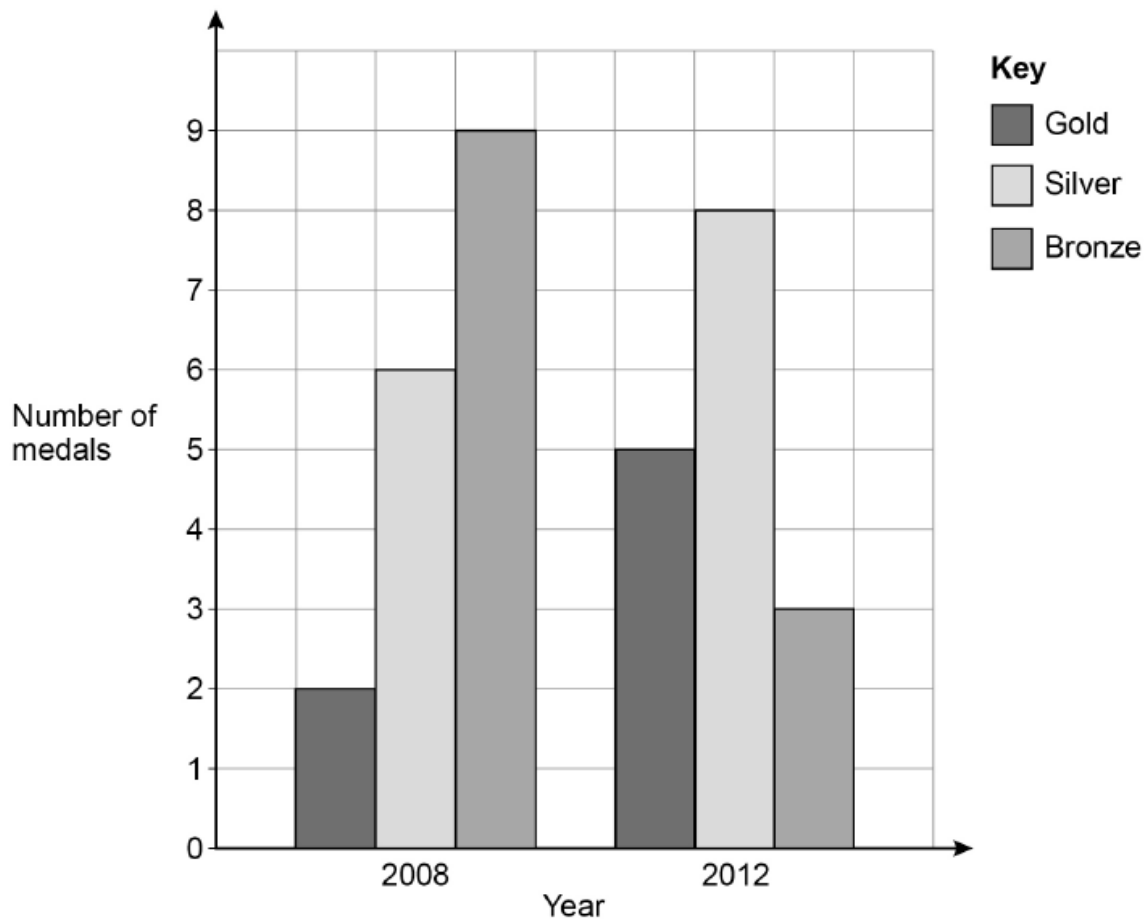


**AQA – Statistics – GCSE 2022 Mathematics****1. June/2022/Paper\_8300/3F/No.7**

The bar chart shows the number of medals won by a country at events in 2008 and 2012



(a) Complete this statement about the medals won by the country in 2008

[1 mark]

number of Silver medals = \_\_\_\_\_ × number of Gold medals

(b) Show that the country won **more** medals in 2008 than in 2012

[2 marks]

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(c) At the 2016 event the country won an **equal** number of each type of medal.  
Here is a statement about the medals won by the country in 2016

The total number of medals **cannot** be 25

Give a reason why the statement is correct.

[1 mark]

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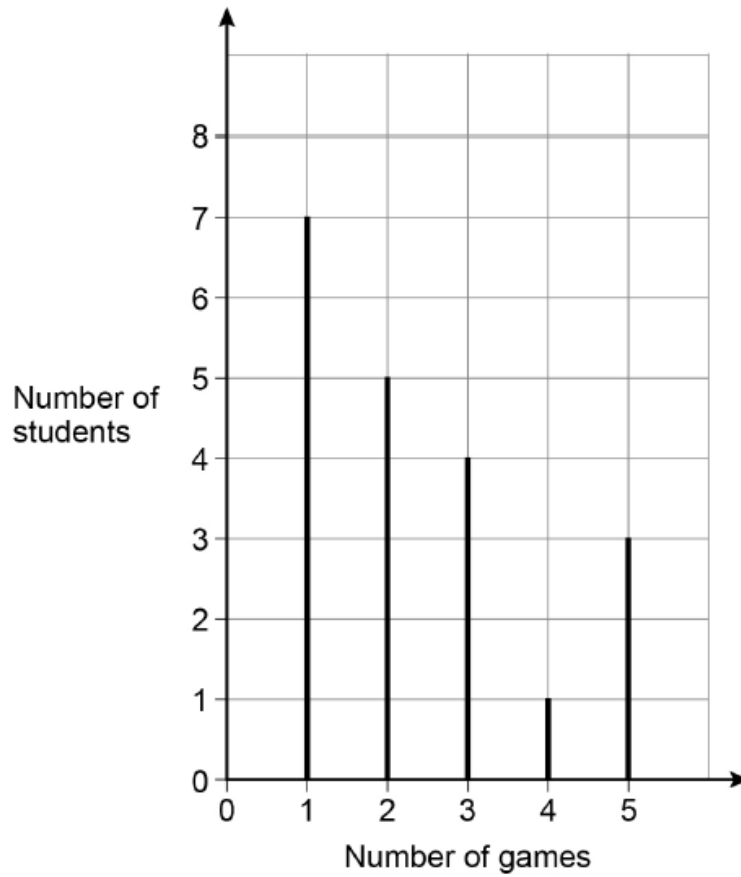
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**2. June/2022/Paper\_8300/3F/No.14**

20 students are asked how many video games they played last month.

The chart shows information about the results.



(a) How many students played more than 2 games?

[1 mark]

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Answer \_\_\_\_\_

(b) Work out the mean number of games played.

Give your answer as a decimal.

[3 marks]

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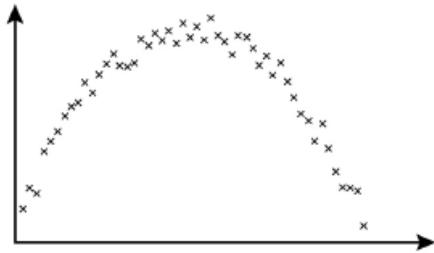
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Answer \_\_\_\_\_

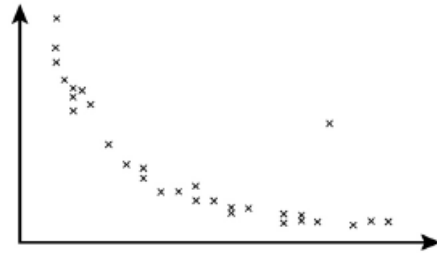
3. June/2022/Paper\_8300/3H/No.3

Here are four scatter graphs.

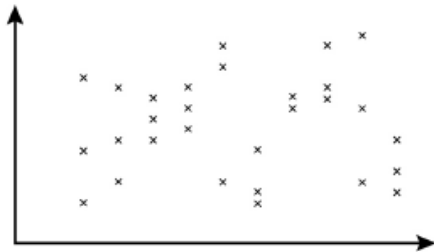
Graph A



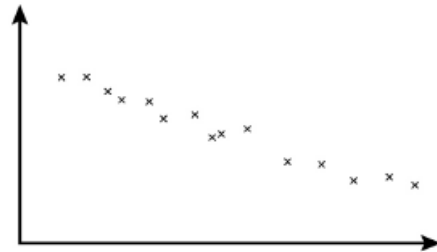
Graph B



Graph C



Graph D



(a) For which graph is a straight line of best fit appropriate?

Circle your answer.

[1 mark]

A

B

C

D

(b) Which graph has **one** outlier?

Circle your answer.

[1 mark]

A

B

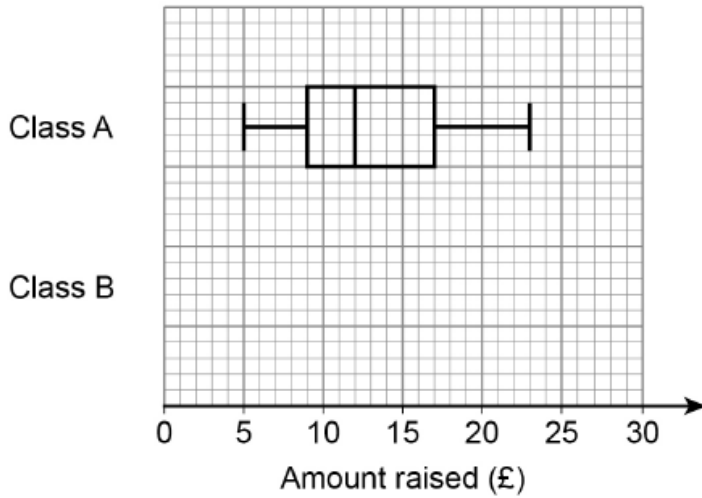
C

D

4. June/2022/Paper\_8300/3H/No.14

Students in two classes, A and B, raised money for charity.

The box plot for class A is shown on the grid.



For class B,

- the lowest amount was £3 and the highest amount was £26
- the lower quartile was £11
- the median was £2 greater than the class A median
- the interquartile range was  $1\frac{1}{2}$  times greater than the class A interquartile range.

Draw the box plot for class B on the grid.

[4 marks]

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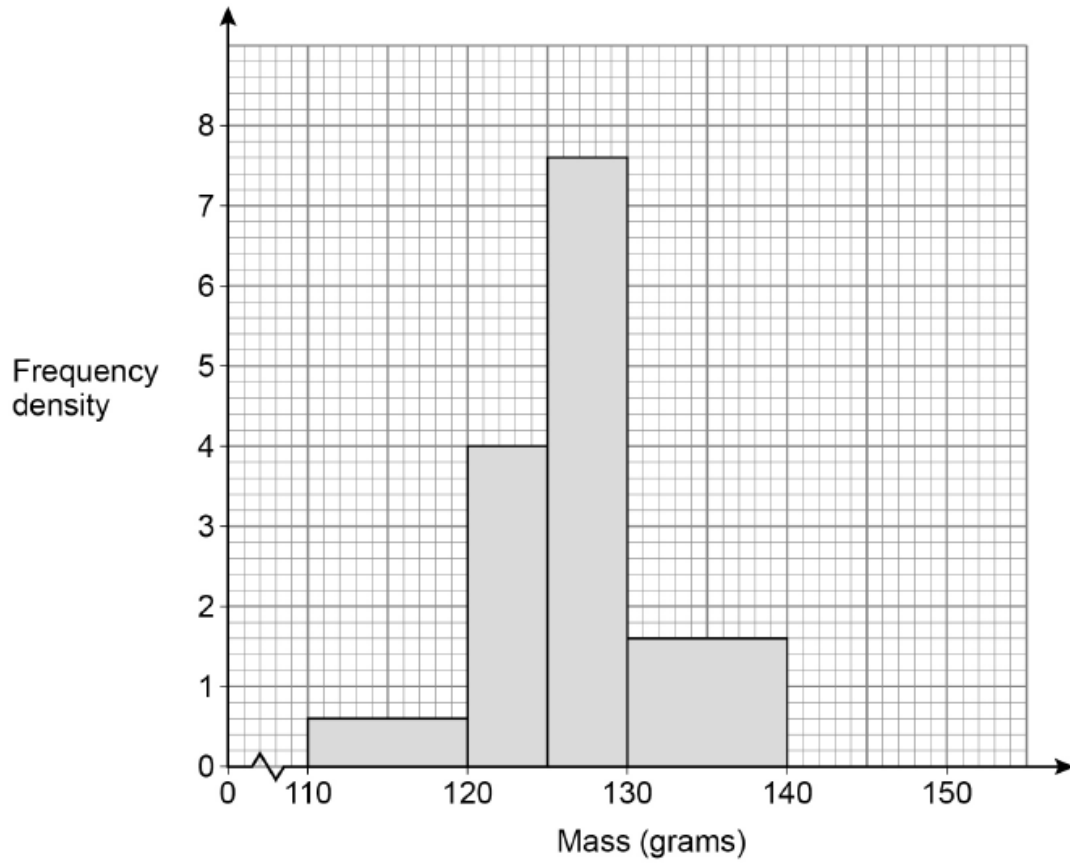
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5. June/2022/Paper\_8300/3H/No.25

A company makes tubes of toothpaste.

The masses of 80 tubes are checked.

A histogram is drawn to represent the data.



The company makes 28 000 tubes each day.

Estimate how many tubes each day have a mass less than 122 grams.

[4 marks]

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