

GCSE Mathematics

H

Box Plots

Higher | Grades 6-7

Total Marks	Time	Questions
36	36 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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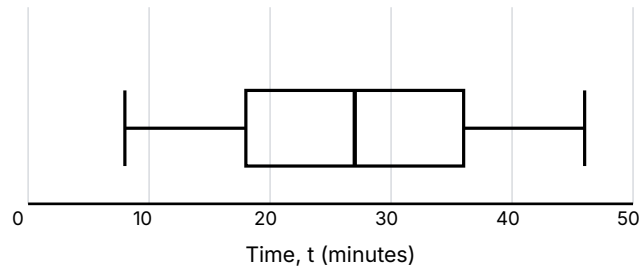
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Edexcel-style questions**Q1**

Grade 6

Edexcel style

The box plot shows the time taken by 40 students to complete a puzzle. Write down the median time.



Answer _____

teachably

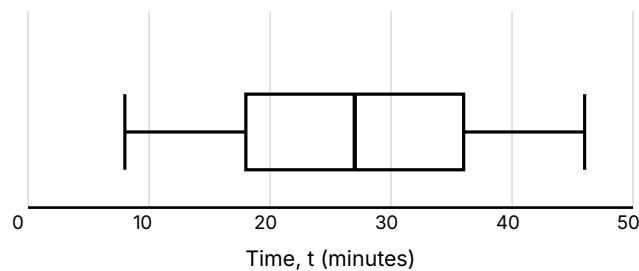
[1 mark]

Q2

Grade 6

Edexcel style

The box plot shows the time taken by 40 students to complete a puzzle. Find the range and the interquartile range.



Answer _____

teachably

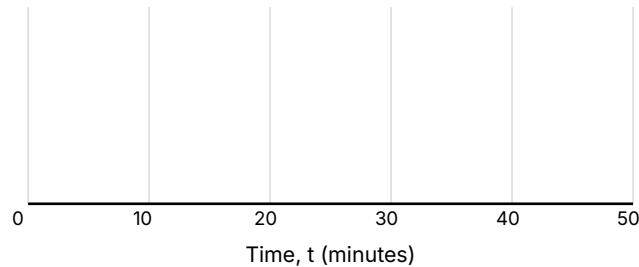
[2 marks]

Q3

Grade 6

Edexcel style

The time taken, in minutes, by another group of 40 students to complete the puzzle has minimum 8, lower quartile 18, median 27, upper quartile 36 and maximum 46. Draw a box plot to show this information.



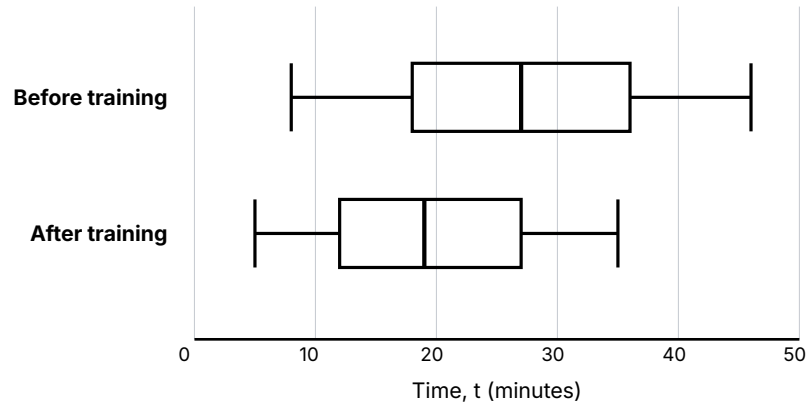
Answer _____

Q4

Grade 7

Edexcel style

The box plots show the time taken by the same 40 students to complete a puzzle, before and after a training session. Compare the two distributions.



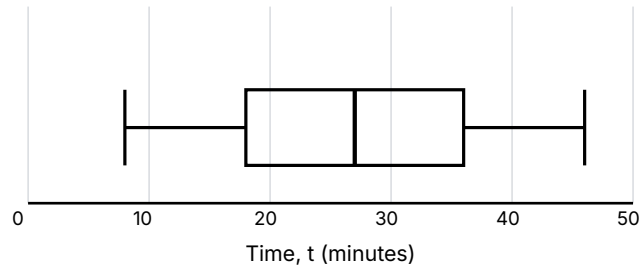
Answer _____

Q5

Grade 7

Edexcel style

The box plot shows the time taken by 40 students to complete a puzzle. Use the box plot to estimate the number of students who took more than 36 minutes.



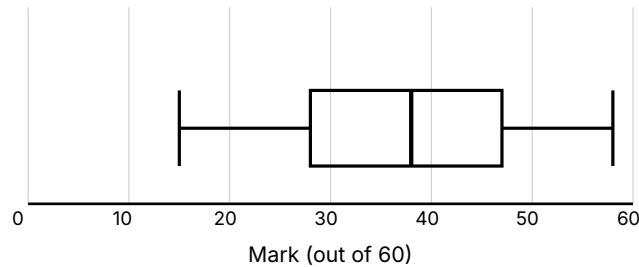
Answer _____

AQA-style questions**Q6**

Grade 6

AQA style

The box plot shows the marks scored out of 60 by 32 students in a test. Write down the upper quartile.



Answer _____

teachably

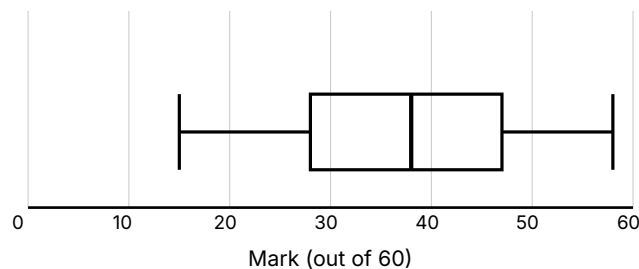
[1 mark]

Q7

Grade 6

AQA style

The box plot shows the marks scored out of 60 by 32 students in a test. Find the range and the interquartile range.



Answer _____

teachably

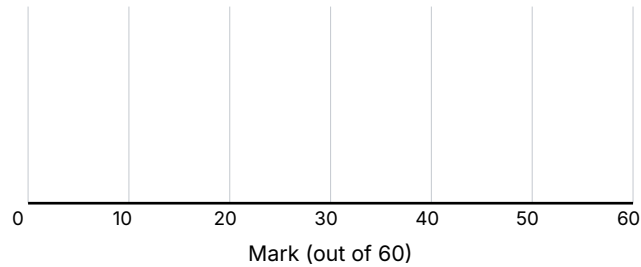
[2 marks]

Q8

Grade 6

AQA style

The marks out of 60 scored by another group of 32 students has minimum 15, lower quartile 28, median 38, upper quartile 47 and maximum 58. Draw a box plot to show this information.



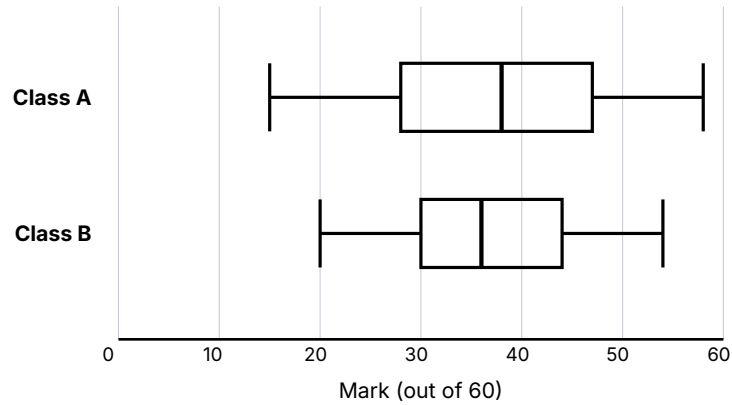
Answer _____

Q9

Grade 7

AQA style

The box plots show the marks out of 60 scored by Class A and Class B in the same test. Compare the two distributions.



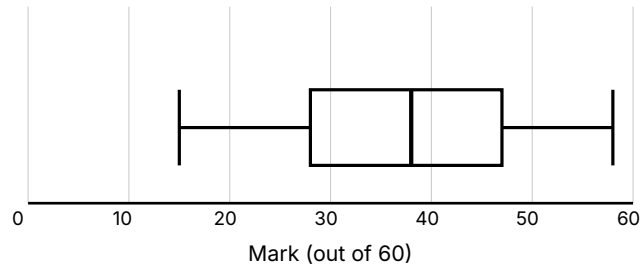
Answer _____

Q10

Grade 7

AQA style

The box plot shows the marks scored out of 60 by 32 students in a test. Use the box plot to estimate the number of students who scored more than 47.



Answer _____

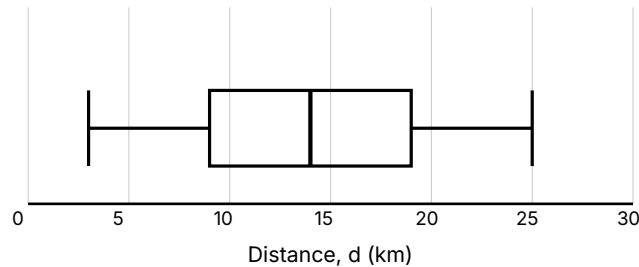
OCR-style questions

Q11

Grade 6

OCR style

The box plot shows the distance run by 48 athletes in training. Write down the minimum distance.



Answer _____

teachably

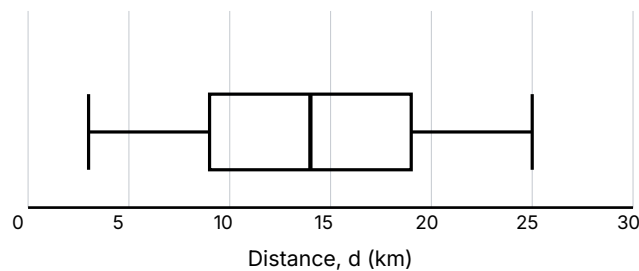
[1 mark]

Q12

Grade 6

OCR style

The box plot shows the distance run by 48 athletes in training. Find the range and the interquartile range.



Answer _____

teachably

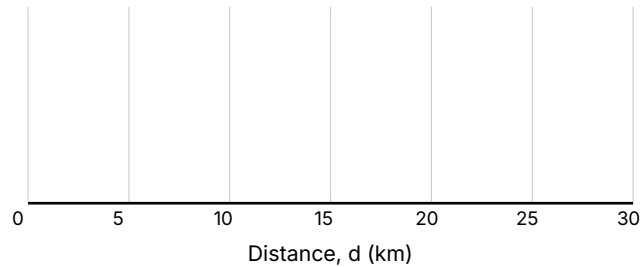
[2 marks]

Q13

Grade 6

OCR style

The distance run, in km, by another group of 48 athletes has minimum 3, lower quartile 9, median 14, upper quartile 19 and maximum 25. Draw a box plot to show this information.



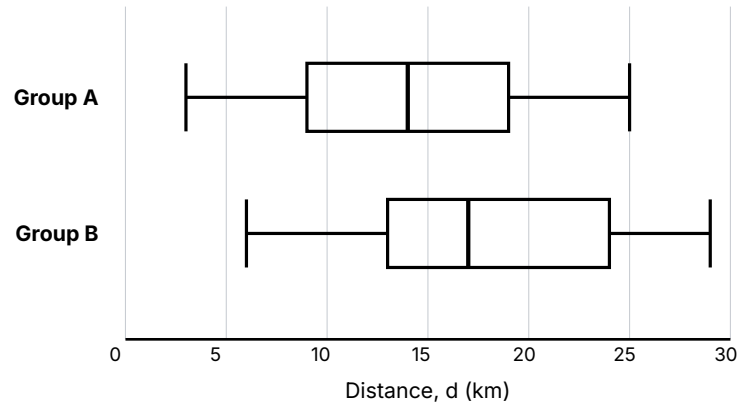
Answer _____

Q14

Grade 7

OCR style

The box plots show the distance run by Group A and Group B in training. Compare the two distributions.



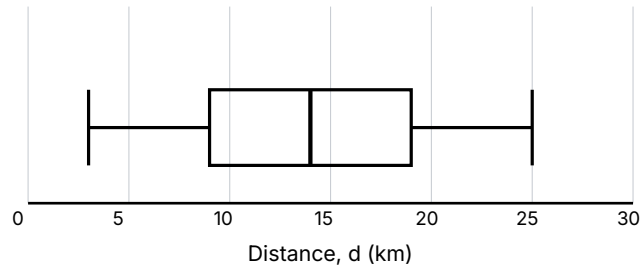
Answer _____

Q15

Grade 7

OCR style

The box plot shows the distance run by 48 athletes in training. Use the box plot to estimate the number of athletes who ran more than 19 km.



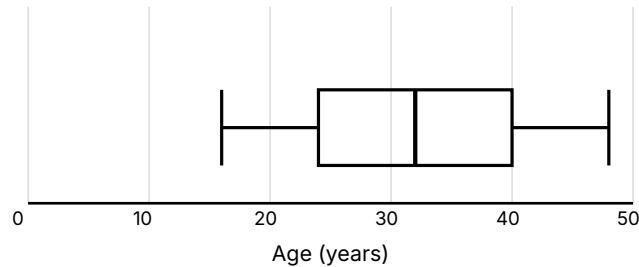
Answer _____

Teachably-style questions**Q16**

Grade 6

Teachably style

The box plot shows the age of 44 members at a gym. Write down the lower quartile.



Answer _____

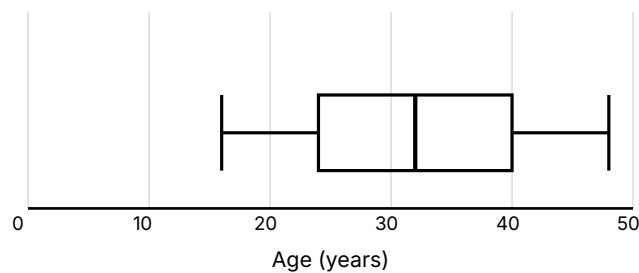
teachably

[1 mark]**Q17**

Grade 6

Teachably style

The box plot shows the age of 44 members at a gym. Find the range and the interquartile range.



Answer _____

teachably

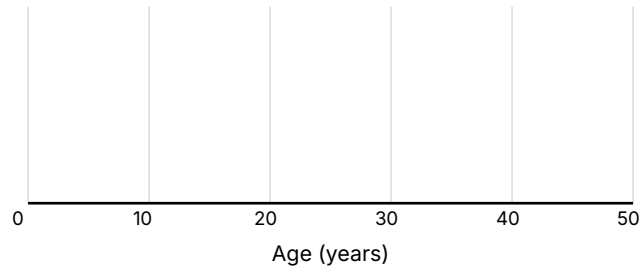
[2 marks]

Q18

Grade 6

Teachably style

The age, in years, of another group of 44 gym members has minimum 16, lower quartile 24, median 32, upper quartile 40 and maximum 48. Draw a box plot to show this information.



Answer _____

teachably

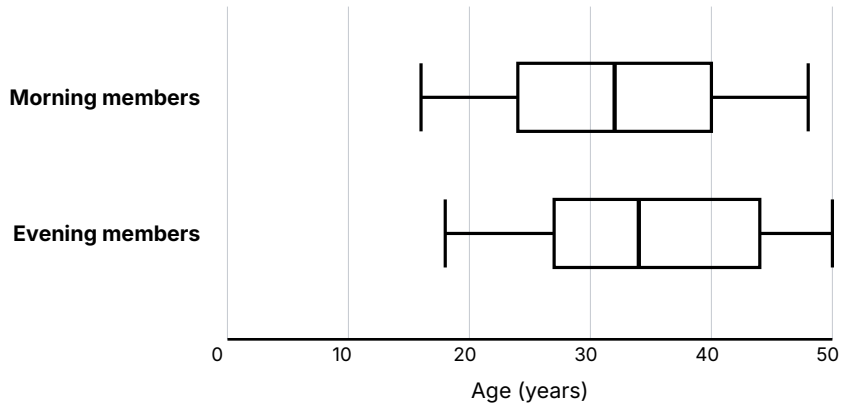
[2 marks]

Q19

Grade 7

Teachably style

The box plots show the age of the morning members and the evening members at a gym. Compare the two distributions.



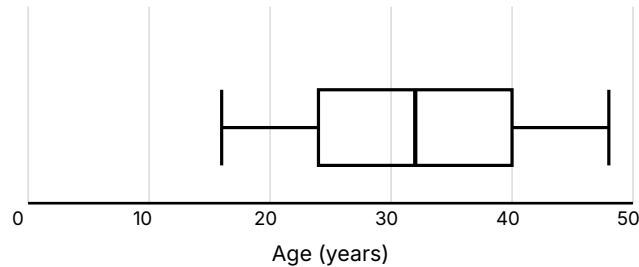
Answer _____

Q20

Grade 7

Teachably style

The box plot shows the age of 44 members at a gym. Use the box plot to estimate the number of members who are older than 40.



Answer _____

teachably

[2 marks]

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