

GCSE Mathematics

F/H

Averages from Grouped Data

Grades 5-6

Total Marks	Time	Questions
56	56 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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Edexcel-style questions**Q1** 

Grade 5

Edexcel style

The table shows the heights of 40 tomato plants. Write down the modal class.

Height, h (cm)	Frequency
$10 \leq h < 15$	3
$15 \leq h < 20$	7
$20 \leq h < 25$	11
$25 \leq h < 30$	12
$30 \leq h < 35$	7
Total	40

Answer _____

teachably

[1 mark]

Q2

Grade 5

Edexcel style

The table shows the heights of 40 tomato plants. Find the class that contains the median.

Height, h (cm)	Frequency
$10 \leq h < 15$	3
$15 \leq h < 20$	7
$20 \leq h < 25$	11
$25 \leq h < 30$	12
$30 \leq h < 35$	7
Total	40

Answer _____

Q3

Grade 5

Edexcel style

The table shows the heights of 40 tomato plants. Calculate an estimate for the mean height. Give your answer correct to 1 decimal place.

Height, h (cm)	Frequency
$10 \leq h < 15$	3
$15 \leq h < 20$	7
$20 \leq h < 25$	11
$25 \leq h < 30$	12
$30 \leq h < 35$	7
Total	40

Answer _____

Q4



Grade 6

Edexcel style

The table shows the heights of a different sample of 50 tomato plants. Calculate an estimate for the mean height. Give your answer correct to 1 decimal place.

Height, h (cm)	Frequency
$0 \leq h < 15$	4
$15 \leq h < 30$	9
$30 \leq h < 45$	16
$45 \leq h < 60$	14
$60 \leq h < 75$	7
Total	50

Answer

Q5



Grade 6

Edexcel style

The table shows the heights of 35 tomato plants. The estimated mean height is 23 cm. Find the value of x .

Height, h (cm)	Frequency
$0 \leq h < 10$	6
$10 \leq h < 20$	10
$20 \leq h < 30$	x
$30 \leq h < 40$	9
$40 \leq h < 50$	3
Total	35

Answer _____

AQA-style questions**Q6**

Grade 5

AQA style

The table shows the time taken by 40 people to solve a puzzle, in seconds. Write down the modal class.

Time, t (seconds)	Frequency
$20 \leq t < 30$	4
$30 \leq t < 40$	8
$40 \leq t < 50$	13
$50 \leq t < 60$	10
$60 \leq t < 70$	5
Total	40

Answer _____

Q7

Grade 5 AQA style

The table shows the time taken by 40 people to solve a puzzle, in seconds. Find the class that contains the median.

Time, t (seconds)	Frequency
$20 \leq t < 30$	4
$30 \leq t < 40$	8
$40 \leq t < 50$	13
$50 \leq t < 60$	10
$60 \leq t < 70$	5
Total	40

Answer _____

Q8

Grade 5

AQA style

The table shows the time taken by 40 people to solve a puzzle, in seconds. Calculate an estimate for the mean time.

Time, t (seconds)	Frequency
$20 \leq t < 30$	4
$30 \leq t < 40$	8
$40 \leq t < 50$	13
$50 \leq t < 60$	10
$60 \leq t < 70$	5
Total	40

Answer _____

Q9

Grade 6 AQA style

The table shows the time taken by 50 people to solve a harder puzzle, in seconds. Calculate an estimate for the mean time. Give your answer correct to 1 decimal place.

Time, t (seconds)	Frequency
$10 \leq t < 25$	5
$25 \leq t < 40$	11
$40 \leq t < 55$	17
$55 \leq t < 70$	10
$70 \leq t < 85$	7
Total	50

Answer _____

Q10

Grade 6

AQA style

The table shows the time taken by 50 people to solve a puzzle, in seconds. The estimated mean time is 41 seconds. Find the value of x .

Time, t (seconds)	Frequency
$20 \leq t < 30$	8
$30 \leq t < 40$	x
$40 \leq t < 50$	12
$50 \leq t < 60$	7
$60 \leq t < 70$	4
Total	50

Answer _____

OCR-style questions**Q11** 

Grade 5

OCR style

The table shows the weight of 40 apples, in grams. Write down the modal class.

Weight, w (g)	Frequency
$100 \leq w < 120$	6
$120 \leq w < 140$	9
$140 \leq w < 160$	14
$160 \leq w < 180$	7
$180 \leq w < 200$	4
Total	40

Answer _____

teachably

[1 mark]

Q12

Grade 5 OCR style

The table shows the weight of 40 apples, in grams. Find the class that contains the median.

Weight, w (g)	Frequency
$100 \leq w < 120$	6
$120 \leq w < 140$	9
$140 \leq w < 160$	14
$160 \leq w < 180$	7
$180 \leq w < 200$	4
Total	40

Answer _____

Q13

Grade 5

OCR style

The table shows the weight of 40 apples, in grams. Calculate an estimate for the mean weight.

Weight, w (g)	Frequency
$100 \leq w < 120$	6
$120 \leq w < 140$	9
$140 \leq w < 160$	14
$160 \leq w < 180$	7
$180 \leq w < 200$	4
Total	40

Answer _____

Q14

Grade 6

OCR style

The table shows the weight of a different sample of 50 apples, in grams. Calculate an estimate for the mean weight. Give your answer correct to 1 decimal place.

Weight, w (g)	Frequency
$80 \leq w < 95$	6
$95 \leq w < 110$	10
$110 \leq w < 125$	15
$125 \leq w < 140$	12
$140 \leq w < 155$	7
Total	50

Answer _____

Q15

Grade 6 OCR style

The table shows the weight of 32 apples, in grams. The estimated mean weight is 125 g. Find the value of x .

Weight, w (g)	Frequency
$80 \leq w < 100$	5
$100 \leq w < 120$	9
$120 \leq w < 140$	11
$140 \leq w < 160$	x
$160 \leq w < 180$	4
Total	32

Answer _____

Teachably-style questions**Q16** 

Grade 5

Teachably style

The table shows the distance cycled by 40 riders, in km. Write down the modal class.

Distance, d (km)	Frequency
$0 \leq d < 10$	5
$10 \leq d < 20$	7
$20 \leq d < 30$	9
$30 \leq d < 40$	13
$40 \leq d < 50$	6
Total	40

Answer _____

teachably

[1 mark]

Q17

Grade 5

Teachably style

The table shows the distance cycled by 40 riders, in km. Find the class that contains the median.

Distance, d (km)	Frequency
$0 \leq d < 10$	5
$10 \leq d < 20$	7
$20 \leq d < 30$	9
$30 \leq d < 40$	13
$40 \leq d < 50$	6
Total	40

Answer _____

teachably

[3 marks]

Q18

Grade 5

Teachably style

The table shows the distance cycled by 40 riders, in km. Calculate an estimate for the mean distance.

Distance, d (km)	Frequency
$0 \leq d < 10$	5
$10 \leq d < 20$	7
$20 \leq d < 30$	9
$30 \leq d < 40$	13
$40 \leq d < 50$	6
Total	40

Answer _____

teachably

[3 marks]

Q19

Grade 6

Teachably style

The table shows the distance cycled by 50 riders in a longer event, in km. Calculate an estimate for the mean distance. Give your answer correct to 1 decimal place.

Distance, d (km)	Frequency
$5 \leq d < 20$	7
$20 \leq d < 35$	12
$35 \leq d < 50$	14
$50 \leq d < 65$	10
$65 \leq d < 80$	7
Total	50

Answer _____

teachably

[3 marks]

Q20

Grade 6

Teachably style

The table shows the distance cycled by 47 riders, in km. The estimated mean distance is 25 km. Find the value of x .

Distance, d (km)	Frequency
$0 \leq d < 10$	6
$10 \leq d < 20$	11
$20 \leq d < 30$	14
$30 \leq d < 40$	9
$40 \leq d < 50$	x
Total	47

Answer _____

teachably

[4 marks]

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