

Year 7 Class 27 questions

Q1

The 20 students in Lyla's class donated a total of \$460 to charity.

On average, how much did each student donate? \$

Q2

This set of numbers has an average of 16.3.

Fill in the missing number.

7.5, 18.1, 11.2, 15.3, 21.4,

Q3

There are 7 people in a walking group. Their ages are: 64, 48, 52, 61, 57, 36, 46.

What is the mean age?

Q4

Complete the table.

Score x	Freq f	fx
11	5	<input type="text"/>
12	10	<input type="text"/>
13	7	<input type="text"/>
14	5	<input type="text"/>

 (Σf) (Σfx)

Mean = (1 d.p.)

Q5

Complete the table.

Score x	Freq f	cf
72	2	<input type="text"/>
74	8	<input type="text"/>
76	11	<input type="text"/>
78	9	<input type="text"/>

$\Sigma f =$

Median =

Q6

Rosie reads an average of 3 books per week.

After 8 weeks, how many books has she read in total?

Total = books

Q7

Lexi runs an average of 12 kilometres per day.

After 3 weeks, how far has she run in total?

Total = km

Q8

In his first 7 games of soccer, Phil scored 3, 1, 0, 2, 1, 3 and 2 goals.

After 8 games, his average was 2 goals per game.

How many goals did Phil score in the 8th game?

Q9

Over 5 long distance races, Jack's average time is 62 minutes.
In the next 3 races, his times are 64, 58 and 56 minutes.

Find Jack's average time over all of his races?

Q10

Last week Ruby worked the following hours.

Day	Mon	Tues	Wed	Thurs	Fri
Hours	8	6	9.5	8	7.5

What is the mean number of hours she worked each day? (Answer to 1 decimal place)

Mean = hours

Q11

Lissie records the number of squats she is able to complete in a minute.

Her results for the last 10 training sessions are:

25 26 32 34 37 38 42 45 48 51

What is her mean number of squats?

Mean =

Q12

Complete the table.

Score x	Freq f	fx
3	17	<input type="text"/>
4	27	<input type="text"/>
5	31	<input type="text"/>
6	23	<input type="text"/>
	<input type="text"/>	<input type="text"/>
	(Σf)	(Σfx)

Mean = (1 d.p.)

Q13

Complete the table.

Score x	Freq f	fx
3	22	<input type="text"/>
4	29	<input type="text"/>
5	39	<input type="text"/>
6	30	<input type="text"/>
	<input type="text"/>	<input type="text"/>
	(Σf)	(Σfx)

Mean = (1 d.p.)

Q14

Complete the table.

Score x	Freq f	cf
40	17	<input type="text"/>
42	25	<input type="text"/>
44	14	<input type="text"/>
46	17	<input type="text"/>
48	12	<input type="text"/>

$\Sigma f =$

Median =

Q15

Complete the table.

Score x	Freq f	cf
82	<input type="text"/>	13
84	<input type="text"/>	19
86	<input type="text"/>	22
88	<input type="text"/>	27
90	<input type="text"/>	47

$$\Sigma f = \text{$$

$$\text{Median} = \text{$$

Q16

This set of numbers has an average of 10.

Fill in the missing number.

7, 10,

Q17

This set of numbers has an average of 43.

Fill in the missing number.

63, 29,

Q18

This set of numbers has an average of 79.4.

Fill in the missing number.

19.2, 95.8, 74.7,

Q19

Group A (with 7 people), has an average of 6.5. Group B (with 5 people), has an average of 7.2. Group C (with 8 people), has an average of 5.5.

Find the combined average of the three groups.

Q20

The average of 10 numbers was 13. After a new number was added the average was 15.

What was the 11th number?

Q21

Carter scores an average of 6 points per game after 14 games.

What score does he need in his next game to increase his average to 7?

Q22

In his first 4 games of basketball, Nick scores 18, 22, 20 and 20 points.

How many points does he need to score in his 5th game to have a mean of 21 points per game?

Q23

Pete records the number of hours he practises the piano for each week for 4 weeks: He practises for 4, 5, 3 and 6 hours.

How long does he need to practise for in the 5th week to have a mean of 5 hours practise each week?

Q24

The mean height of 5 basketball players is 175 cm.
When a 6th player was added to the team, the mean height increased to 177 cm.

How tall was the 6th player?

Q25

Complete the table.

Score x	Freq f	fx
8	9	<input type="text"/>
9	19	<input type="text"/>
10	20	<input type="text"/>
11	12	<input type="text"/>

<input type="text"/>	<input type="text"/>
(Σf)	(Σfx)

Mean = (1 d.p.)

Q26

Complete the table.

Score x	Freq f	fx
3	19	<input type="text"/>
4	36	<input type="text"/>
5	42	<input type="text"/>
6	23	<input type="text"/>

<input type="text"/>	<input type="text"/>
(Σf)	(Σfx)

Mean = (1 d.p.)

Q27

Complete the table.

Score x	Freq f	fx
12	25	<input type="text"/>
11	12	<input type="text"/>
10	12	<input type="text"/>
13	11	<input type="text"/>

<input type="text"/>	<input type="text"/>
(Σf)	(Σfx)

Mean = (1 d.p.)

Q28

Complete the table.

Score x	Freq f	cf
20	17	<input type="text"/>
22	25	<input type="text"/>
24	14	<input type="text"/>
26	17	<input type="text"/>
28	11	<input type="text"/>

$\Sigma f =$

Median =

Q29

Complete the table.

Score x	Freq f	cf
10	8	<input type="text"/>
11	16	<input type="text"/>
12	7	<input type="text"/>
13	12	<input type="text"/>
14	5	<input type="text"/>

$\Sigma f =$

Median =

Q30

Complete the table.

Score x	Freq f	cf
62	<input type="text"/>	12
64	<input type="text"/>	16
66	<input type="text"/>	26
68	<input type="text"/>	44
70	<input type="text"/>	58

$$\Sigma f = \text{$$

$$\text{Median} = \text{$$
