

P18- *Averages from a Table*

OCR

Edexcel

16 The table shows information about the number of children in each of 40 families.

Number of children	Frequency
0	6
1	13
2	12
3	7
4	2
5 or more	0

(a) Find the median number of children.

.....
(1)

(b) Work out the total number of children.

.....
(2)

16 The table shows information about the number of children in each of 40 families.

(b) ↓ 000000 ||||| 222222222222 333333 44

0
13
24
21
8

Number of children	Frequency
0	6
1	13
2	12
3	7
4	2
5 or more	0

6
19
31

(a) Find the median number of children.



median ... $\frac{1}{2}(40+1)$
 $\frac{1}{2}(41) = 20.5^{th}$ position

2
(1)

(b) Work out the total number of children.

66
(2)

17 The table shows some information about the dress sizes of 25 women.

Video created by W Neill

(a) Find the median dress size.

Dress size	Number of women
8	2
10	9
12	8
14	6

3 of the 25 women have a shoe size of 7

Zoe says that if you choose at random one of the 25 women, the probability that she has either a shoe size of 7 or a dress size of 14 is $\frac{9}{25}$ because

$$\frac{3}{25} + \frac{6}{25} = \frac{9}{25}$$

(b) Is Zoe correct?

You must give a reason for your answer.

17 The table shows some information about the dress sizes of 25 women.

Video created by W Neill

(a) Find the median dress size.

Dress size	Number of women
8	2
10	9
12	8
14	6

middle woman $\frac{25+1}{2} = \frac{26}{2} = 13^{\text{th}}$

2
11
19

Dress size 12

~~8~~ 10 10 10 10 10 10 10 10 10 12 ~~12~~ 12 12 12 12 12 12 14 14 14 14 14

3 of the 25 women have a shoe size of 7

Zoe says that if you choose at random one of the 25 women, the probability that she has

either a shoe size of 7 or a dress size of 14 is $\frac{9}{25}$ because

+

$\frac{3}{25} + \frac{6}{25} = \frac{9}{25}$ ✓ 9 people

(b) Is Zoe correct?

You must give a reason for your answer.

No, as some people may be in both parts. eg $\left. \begin{array}{l} \text{Size 7 foot} \\ \text{Size 14 dress} \end{array} \right\} \text{1 person?}$

16 Marla buys some bags of buttons.

Video created by W Neill

P18 There are 19 buttons or 20 buttons or 21 buttons or 22 buttons in each bag.

The table gives some information about the number of buttons in each bag.

Number of buttons	Frequency
19
20	7
21	3
22	1

The total number of buttons is 320

Complete the table.

(Total for Question 16 is 3 marks)

16 Marla buys some bags of buttons.

Video created by W Neill

P18 There are 19 buttons or 20 buttons or 21 buttons or 22 buttons in each bag.

The table gives some information about the number of buttons in each bag.

Number of buttons	Frequency
19	5
20	X 7
21	X 3
22	X 1

95
140
63
22

320

The total number of buttons is 320

Complete the table.

(Total for Question 16 is 3 marks)

AQA