

1 (a)

3 5 8 10 10

For the numbers above, find

(i) the mean,

$$\frac{3+5+8+10+10}{5} = \frac{36}{5} = 7.2$$

Answer(a)(i) ..... 7.2 [2]

(ii) the mode,

Answer(a)(ii) ..... 10 [1]

(iii) the median,

Answer(a)(iii) ..... 8 [1]

(iv) the range.  $10 - 3 = 7$ 

Answer(a)(iv) ..... 7 [1]

(v) A sixth number, **11**, is added to the list.Write down which **one** of the mean, the mode, the median and the range will stay the same.

Answer(a)(v) ..... Mode [1]

(b) The table shows the results of asking 24 children their favourite colour.

Colour	Red	Blue	Yellow	Green	Pink
Number of children	4	8	2	3	7

Write down the probability, as a fraction, that the favourite colour of a child chosen at random is

(i) blue,  $\frac{8}{4+8+2+3+7} = \frac{8}{24}$  Answer(b)(i) .....  $\frac{8}{24}$  [1](ii) not pink.  $\frac{4+8+2+3}{4+8+2+3+7} = \frac{17}{24}$  Answer(b)(ii) .....  $\frac{17}{24}$  [1](c) The information in **part (b)** is to be shown in a pie chart.

Work out the sector angle for green.

Do not draw the pie chart.

$$\frac{3}{24} \times 360^\circ = 45^\circ$$

Answer(c) .....  $45^\circ$  [2]For  
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