

MEAN, MEDIAN, MODE AND RANGE

ANSWER SHEET

Q1

3 4 5 5 5 6 7 7 8 8

a)
$$8 - 3$$
$$= 5$$

b) 5

c)
$$3 + 4 + 5 + 5 + 5 + 6 + 7 + 7 + 8 + 8$$
$$= \frac{58}{10}$$
$$= 5.8$$

Q2

4 6 10 11 12

a)
$$12 - 4$$
$$= 8$$

b) 10

c)
$$4 + 6 + 10 + 11 + 12$$
$$= \frac{43}{5}$$
$$= 8.6$$

Q3

1) 155 170 165 170 167 185 190 150

a) $190 - 150$

b) 170

c) $155 + 170 + 165 + 170 + 167 + 185 + 190 + 150$
 $= \frac{1352}{8}$
 $= 169 \text{ cm}$

Q4

150 130 125 135 145 105

a) $150 - 105$
 $= 45$

b) 105 125 130 \uparrow 135 145 150

$$\frac{130 + 135}{2}$$

$= 132.5$

Q5

20 9 10 8 15 15

a) $20 - 8$
 $= 12$

b) $20 + 8 + 10 + 8 + 15 + 15$
 $= \frac{76}{6}$
 $= 12.66$

Q6

Q8

(8) 10 8 4 5 9 7

a) 4 5 7 8 9 10
 ↑

$$\frac{7+8}{2} = 7.5$$

b)

◇ 4 ◇ 5 ◇ ? ◇ 6 ◇ 3 ◇ ?

Must be one more 4

◇ 4 ◇ 5 ◇ 4 ◇ 6 ◇ 3 ◇ 4

The number should add to $5 \times 6 = 30$

$$4 + 5 + 4 + 6 + 3 = 22$$

$$30 - 22 = 8$$

So, 4 and 8 are the numbers

Q9

15 20 16 21 11 14 19

a) $21 - 11 = 10$

b) $15 + 20 + 16 + 21 + 11 + 14 + 19$

$$\frac{116}{7} = 16.57$$

c) Jane is wrong, we need to write numbers in order first,

11 14 15 16 19 20 21
 ↑

Median is 16

Q10

Mean is 10

10 6 7 10 8 9 ?

$$7 \times 10 = 70$$

$$10 + 6 + 7 + 10 + 8 + 9 = 50$$

$$70 - 50$$

$$= 20$$

Q11

$$8 \times 40 = 320 \quad \text{All numbers total } 320$$

$$2 \times 30 = 60 \quad \text{Two numbers total } 60$$

$$320 - 60 = 260$$

$$\frac{260}{6} = 43.33$$

Q12

$$13 \times 5 = 65 \text{ km in 5 days}$$

$$65 + 15 = 80 \text{ in 6 days}$$

$$\frac{80}{6} = 13.33 \text{ km}$$