

---

**Question 1**

- (a) i) 12.60  
ii) " $12.60$ "  $\times 12 = 151.20$  (G)
- (b) 59 (G)
- (c)  $(7.20 - 6.12) \div 7.2 = 1.08 \div 7.2 (= 0.15)$   $0.15 \times 100 = 15\%$   
OR  $6.12 \div 7.2 (= 0.85)$   $0.85 \times 100 = 85$ ,  
 $100 - 85 = 15\%$  (D)

---

**Question 2**

- (a)  $150 < C \leq 200$
- (b) No, because the 21<sup>st</sup> value is in the same interval
- (c) 6500

---

**Question 3**

Pupils' own answers

---

**Question 4**

- (a) diagram
- (b) Bigger size, shorter times (oe)
- (c) 17.5 – 18.5 seconds
- (d)  $\frac{5}{9}$
- (e)  $\frac{2}{9}$

Notes:

- (a) B2 cao all correct  
B1 cao >4 correct, to half a square
- (b) B1 cao
- (c) B1 cao
- (d) B1 cao accept 0.55, 0.56 oe or better
- (e) B1 cao accept 0.22 or better

---

**Question 5**

- (a) Line of best fit
- (b) i) Distance = 5.2 m → 1.685 m
- ii) Height = 1.83 m → 5.6 m

Notes:

- (a) B2 if fully within overlay guides  
    B1 cao if no less than half within the guides
- (b) i) B1 ± square (ft) dep on at least B1 in (a)
- ii) B1 ± square (ft) dep on at least B1 in (a)

---

**Question 6**

Specify a period of time, e.g. "How much television do you watch **in a day**?"  
Include some options such as 0-5 hours, 6-10 hours etc.

---

**Question 7**

- (a) graph
- (b) negative

---

**Question 8**

- (a) points plotted
- (b) High positive, good accept description of relationship

---

**Question 9**

- (a) Line of best fit
- (b) Draw line "amount = 10.4" on graph or state use of amount = 10.4; price about £16.50

---

**Question 10**

- (a) Line of best fit (only str. line)
- (b) i) accept 136 – 140 pages
- ii) accept 216 – 220 g

---

**Question 11**

- (a) Line of best fit
- (b) i) 35 units →
- ii) 7° C →

Notes:

- (a) B2
- (b) i) B1 ft ± half a square (dep on a single overall line)
- ii) B1 ft ± half a square (dep on a single overall line)

---

**Question 12**

(a) <u>Animal</u>	<u>Angle</u>
Hens	45
Sheep	120
Cows	156
Pigs	30
Geese	9

(b) i)  $\frac{1}{12}$

ii) 0

iii)  $\frac{(80+104+20)}{240} = \frac{17}{20}$

---

**Question 13**

(a) 11 to 15

(b) 16.4

---

**Question 14**

304

---

**Question 15**

(a) 29

(b) Gr A  $\rightarrow$  12  
Gr B  $\rightarrow$  20  
Gr C  $\rightarrow$  18

---

**Question 16**

(a) 65

(b)  $60 \leq w < 80$

---

**Question 17**

(10), 36, 18, 22, 16

---

**Question 18**

(a) 60  
40

(b) correct bars

---

**Question 19**

(a) No, e.g. the sample needs to contain students from all years.

(b) 11

---

**Question 20**

(a) 450,175,90

(b) cols = 16,60,2