

**SECTION A – Core: Data analysis****Question 1      E**

The 194 figure is an outlier which makes mean, range and standard deviation not appropriate.

**Question 2      B**

There are twenty pieces of data on both sides so the median is between the 10th and 11th value, 9.85 for both.

**Question 3      B**

Calculate the five-figure summary for each set. Options **A** and **C** have the wrong  $Q_3$ , **D** has the incorrect minimum value, and **E** has the incorrect maximum value.

**Question 4      C**

$$\frac{(3 \times 47 + 8 \times 48 + 10 \times 49 + 12 \times 50 + 6 \times 51 + 1 \times 52)}{40}$$

$$\text{median} = 49$$

$$\text{mean} = 49.3$$

$$Q_1 = 48$$

$$Q_3 = 50$$

$$\text{IQR} = 2$$

$$\text{range} = 5$$

**Question 5      D**

The answer is **D** as the correlation is negative, so an increase in one decreases the other. All other options are incorrect.

**Question 6      D**

$$50\% + 34\% = 84\%$$

**Question 7      B**

Points are (3, 5) and (20, 15), gradient =  $\frac{10}{17}$ .

**Question 8      D**

The depth of snow will depend on the time of year.