**WS1 Scatter Diagrams and Correlation ANSWERS**

1. (a) III (b) II (c) I (d) IV

2. (b) student D

(c)  = 63 and  = 55

(e) strong positive correlation

(f) about 52 or 53

3. (b)  = 42 and  = 67

(d) strong negative correlation

(e) about 62 from my graph (the real statistic is 64 – quite close!)

**WS2 The Correlation Formula and Regression ANSWERS**

1. sx = 1.87, sy = 2.74, r = 0.976

2. (a) –0.727

(b) 0.724

(c) 0.285

(d) –0.655

3. (b) 

(d) y = 2.2

4. = 14.6, , sx = 6.41

5. (a) 

(b) 60.7s

6. y = 0.641x + 19

7. (a) (i) 27mm (ii) 8mm

(b) not very reliable because 18mm is much smaller than the lengths in the table