Practice worksheet | Statistics and regression

Direction/form/strength of association

Name: _____ Date: _____

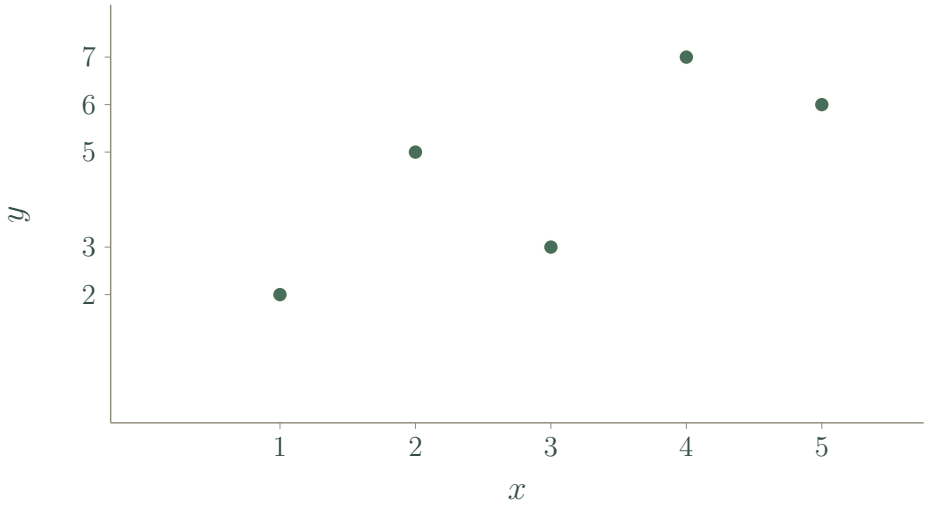
6 questions | 18 marks

1. Describe direction, form and strength for $(1, 10), (2, 8), (3, 6), (4, 4)$. [3 marks]

Paired measurements

x	y
1	10
2	8
3	6
4	4

2. Describe the supplied pairs $(1, 2), (2, 5), (3, 3), (4, 7), (5, 6)$. [3 marks]



3. A scatter plot rises sharply but its points are widely scattered. Is “strong because it is steep” valid? [3 marks]

4. What form is suggested by $(0,1),(1,2),(2,4),(3,8)$? [3 marks]

Paired measurements

x	y
0	1
1	2
2	4
3	8

5. The U-shaped data $(-2,4),(-1,1),(0,0),(1,1),(2,4)$ have $r=0$. Is there no relationship? [3 marks]

6. Two graphs show the same data but use centimetres and metres on the vertical axes. Should their correlation strengths differ? [3 marks]