

Question 1

1.1 $A = -23,85$ ✓

$B = 0,23$ ✓

$y = 0,23 - 23,85$ ✓

1.2 $y = 0,23(550) - 23,85$

$y = 102,65$ ✓

1.3 $r = 0,98$ ✓

1.4 Strong positive correlation ✓

1.5.1 $\bar{x} = \frac{1200}{8}$

$\bar{x} = 150$ ✓

1.5.2 $\bar{y} = 50,50$ ✓

1.5.3 $\bar{x} - \bar{y} = 150 - 50,50$
 $= 99,5$

[12]

∴ One stop ✓

Question 2

2.1

Number of classes	(F) Number of staff	cumulative frequency	Midpoint (X)
$0 \leq x < 2$	5	5	1
$2 \leq x < 4$	15	20 ✓	3
$4 \leq x < 6$	13	33 ✓	5
$6 \leq x < 8$	5	38	7
$8 \leq x < 10$	2	40	9

2.2 40 staff members ✓

2.3 33 staff members ✓

2.4 $\bar{x} = \frac{\sum f \cdot x}{\sum f}$

$$L_t = \frac{98 + 33 + 45 + (x_1 + \frac{5}{2}) + (x_2 + \frac{5}{2}) + 5}{40}$$

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Lauren Gardner



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