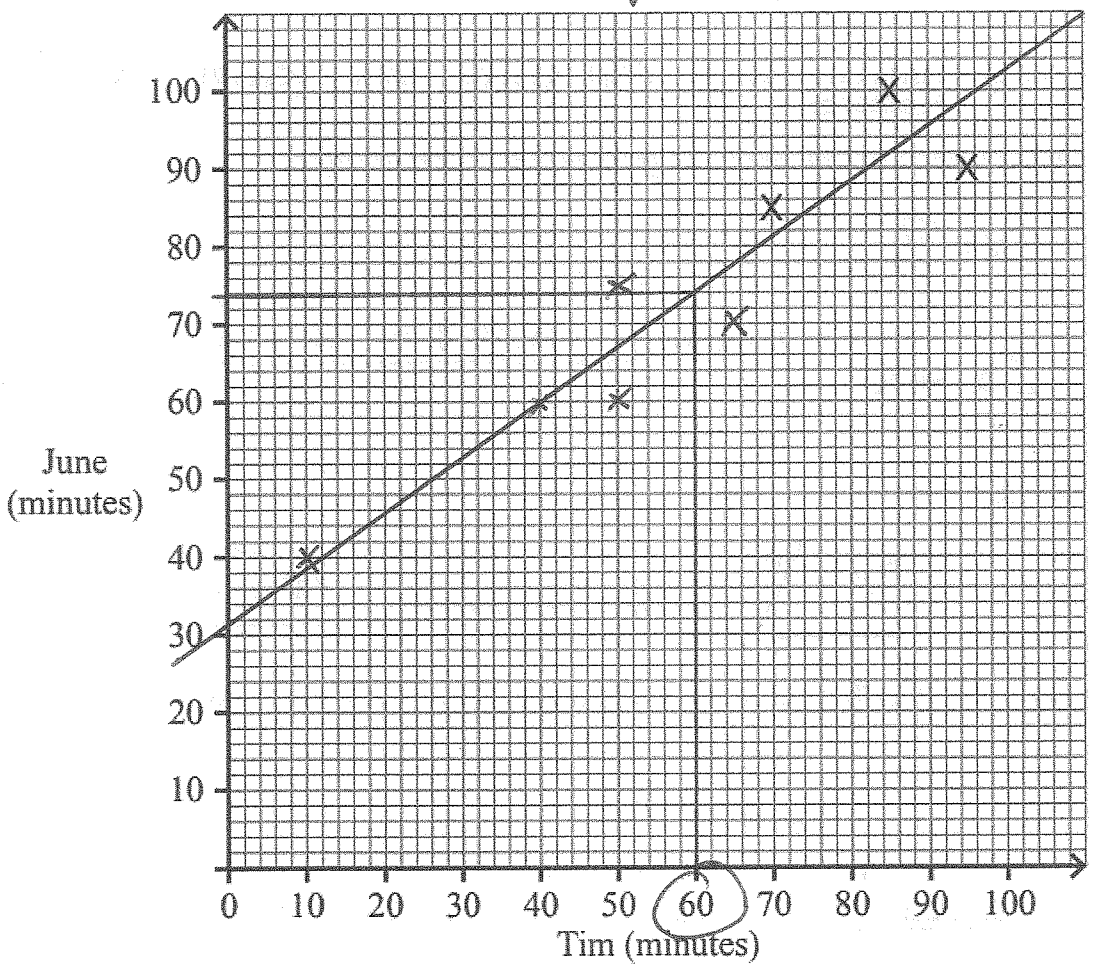
20 Tim and June recorded the amount of time in minutes they spent on different homeworks during one week. The results are shown below.

	Maths	**English**	**Art**	Geography	History	Science	Music	ICT
Tim	**70**	**85**	**95**	50	65	40	10	50
June	**85**	**100**	**90**	75	70	60	40	60



114 = 9 days to go!

(a) Use the data to complete the scatter graph. The first three results are already plotted. [2]

(b) Draw the line of best fit. [1]

Try to get half the points on each side of the line

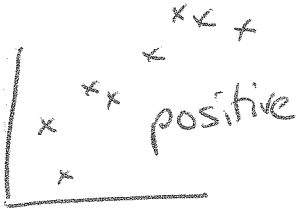
(c) Tim spent 60 minutes on a Technology homework.

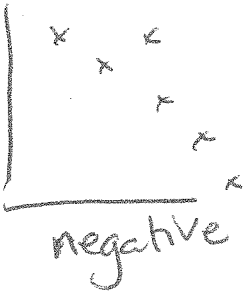
Use your line of best fit to estimate the time that June spent on the Technology homework.

Answer 74 minutes [1]

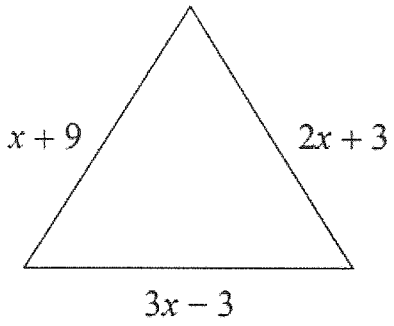
(d) What type of correlation does your graph show?

Answer Positive [1]





21



The diagram shows an equilateral triangle. All sides are same length

Form and solve an equation to calculate the **perimeter** of the triangle.

$x+9=2x+3$

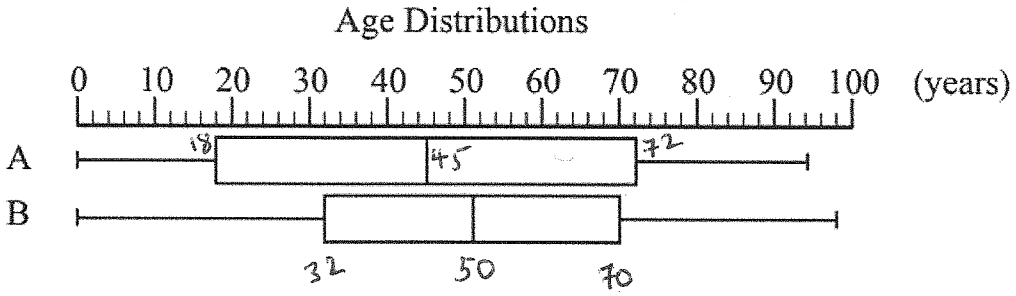
$9-3=2x-x$

$6=x$

Equation $x+9=2x+3$ [1]

Answer perimeter = 45 [3]

25 The box plots show the distribution of ages of the people living in two cities, A and B.



(a) In which city is the interquartile range greater? How can you tell this from the diagram?

Answer city A because IQR is 72-18 = The box is longer [1]

(b) In which city are people generally older? Explain your answer.

Answer city B because Median for B is older than the median for A [1]