

2 The line of best fit – Part 2 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 it is the straight line that best follows the trend of the points, summarizing the relationship.

2.2 for each extra hour studied (1 unit of x), the predicted score rises by 5.

2.3 $\hat{y} = 50 + 5(4) = 70$.

2.4 the difference between an actual value and the value predicted by the line (actual minus predicted).

2.5 the pattern may not continue beyond the observed data, so predictions far outside the range can be very wrong.