

Coodanup CC

# Workcard

Number

CD44W2

Level: 4

Strand: Chance and Data Substrand: Interpret Data

## Holiday Jobs

Nine students were discussing their holiday jobs at a local farm.

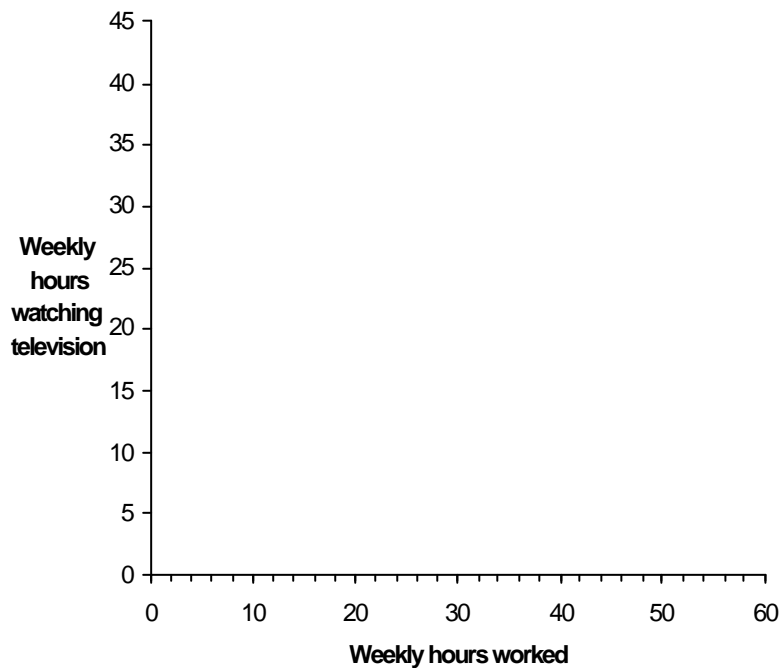
They decided to find out if there were any relationships between the time they spent working, sleeping, watching television and the distance they had to travel to work.

A set of results are shown below:

Hours spent watching TV:	29	31	13	18	12	11	17	24	40
Weekly hours worked:	20	22	50	35	42	49	36	27	15

The graph of the set of data is started below

Graph to show the relationship between time spent watching TV and time spent working



**Activity.** Plot the remaining data and describe the relationship between the weekly hours worked and the weekly hours spent watching TV.

The other data is as follows:

Weekly hours worked:	20	22	50	35	42	49	36	27	15
Weekly hours slept:	41	43	58	45	43	54	45	47	40
Weekly travelling distance (km)	90	39	50	98	45	92	64	84	46

Another student works 30 hours. Use the line of best fit to estimate the weekly hours spent watching television by this student.

**Activity** Create a graph to show the relationship between **weekly hours worked** and **weekly hours slept**. Describe this relationship.

Another student works for 45 hours. Draw a line of best fit and use this line to estimate the number of hours the student slept.

**Activity** Create a third graph to show the relationship between **weekly hours worked** and **weekly travelling distance**. Describe this relationship.

Another student works for 55 hours. Draw a line of best fit and use the line to estimate the distance the student's weekly travelling distance.

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## Reflection

How well did you do at these activities.?

Write down 3 new things you have learnt?

What aspects of your work could you have improved?