

Read a Scatter Plot

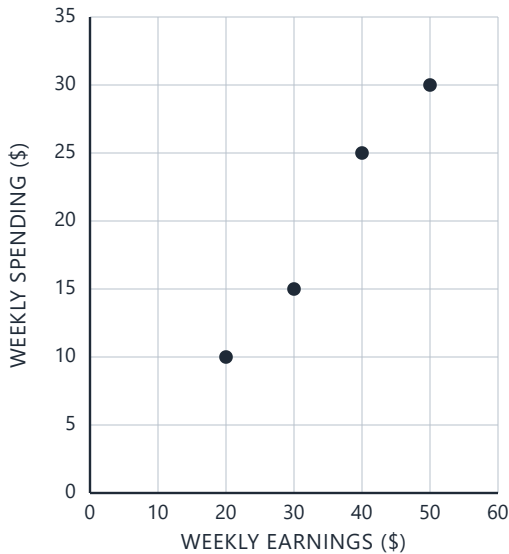
GRADE 8

MATHEMATICS

D1.4

A scatter plot puts two numbers together as a single dot: weekly earnings across the bottom, weekly spending up the side. Four students are plotted below. Read each dot by looking down to the bottom scale and across to the side.

Weekly Earning and Spending



Source: our class transaction records

PART A: READ THE PAIRS

1. The student who earned \$30 spent \$_____.
2. The student who earned \$50 spent \$_____.

PART B: NUMBERS FOR YOUR INFOGRAPHIC

3. The four students earned \$_____ altogether.
4. They spent \$_____ altogether.

PART C: WHAT THE PLOT SHOWS

5. As earnings go up in this data, spending:
(A) goes up as well (B) goes down (C) stays the same

6. A scatter plot is used to show:
- ☐ A how two things relate to each other
 - ☐ B parts of one whole
 - ☐ C change in one thing over time

PART D: BUILD THE TABLE

7. Build the savings column of the table for all four students, in order.

SHOW YOUR WORK

Answer: _____

8. A fifth student earned \$60 and spent \$34. Add their row: what are their earnings, spending and savings?

SHOW YOUR WORK

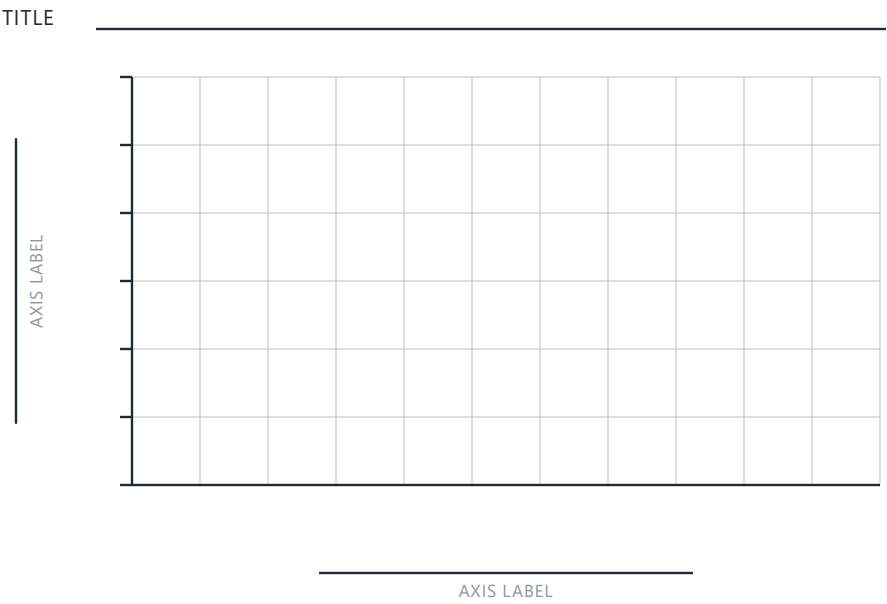
Answer: _____

PART E: BUILD THE INFOGRAPHIC

9. Build a small infographic for this data. Draw the scatter plot with both axes labelled and a scale on each axis, fill in the table below for all five students, and give the infographic a title.

Infographic Table

Earnings	Spending	Savings



10. Write one sentence saying what your infographic shows.

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ANSWER KEY

1. 15
2. 30
3. 140
4. 80
5. A) goes up as well
6. A) how two things relate to each other
7. \$10, \$15, \$15 and \$20.
8. Earnings \$60, spending \$34 and savings \$26.
9. Five dots rising from left to right, with weekly earnings along the bottom and weekly spending up the side, both axes labelled and numbered, a table of five rows giving earnings, spending and savings, and a title such as "Earning and Spending in Our Class".
10. A sentence such as "students who earn more tend to spend more, but they do not all keep the same amount".

TEACHER NOTES

Reduced expectations: the plot is drawn for the student rather than built from raw pairs, only four points are shown, every dot sits on a grid line so it can be read exactly, and the trend is strong enough to be obvious. The Standard sheet in this unit asks students to find the point that sits against the trend.