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1B Maryann recorded the amount she spent in school over 5 days.

Day	Amount
Monday	$2.10
Tuesday	$1.60
Wednesday	$1.80
Thursday	$1.70
Friday	$2.30

$$\text{Average} = \frac{\text{Total amount}}{\text{Number of data}}$$

What was the average amount Maryann spent each day?

Total amount = $2.10 + $1.60 + $1.80 + $1.70 + $2.30
= $9.50

Average = $9.50 ÷ 5
= $1.90

Maryann spent an average of $1.90 each day.

TRY

1A The table shows the scores Huda obtained in 3 Mathematics Test.

Test	Test 1	Test 2	Test 3
Score	65	75	82

What was Huda's average score?

Total score = 65 + 75 + 82

= ☐

Average = ☐ ÷ ☐

= ☐

Huda's average score was ☐.

1B Four students sold T-shirts for a fundraiser. The table shows the number of T-shirts each student sold.

Name	Allison	Munah	Carina	Rehna
Number of T-shirts	12	20	16	28

What is the average number of T-shirts each student sold? [   ]

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2 The average length of 4 ribbons was 8.25 cm.
What was the total length of the ribbons?

Total length = 8.25 × 4
              = 33 cm

The total length of the ribbons was 33 cm.

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2A Cheryl spent all of her allowance in 5 days. She spent an average of $3.50 each day. How much did she spend altogether in the 5 days?

$[   ] ◯ [   ] = $[   ]

She spent $[   ] altogether in the 5 days.

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2B Ravi runs an average distance of 800 m each day. Find the total distance he runs in 5 days. Give your answer in kilometres. [   ] km

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3 The total mass of some identical boxes was 96 kg.
The average mass of one such box was 8 kg.
How many boxes were there?

Number of boxes = 96 ÷ 8
                = 12

There were 12 boxes.

Hands-On Activity — Relate average, total number or total amount and number of data.

Work in pairs.

1 The table shows the number of coloured shirts Mr Tan has.

Colour	Pink	White	Blue
Number of Shirts	2	8	5

Find the average number of shirts Mr Tan has. Tell your partner the information needed to find the average.

2 What do you notice about the relationship between the information that you need and average?

3 Solve the following.

a Average = 7, Total number = 84
Find the number of data.

b Average = 25, Number of data = 4
Find the total number.

4 What do you notice about the relationship between average, total number or total amount and number of data?

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3A Jane had $60. She spent an average of $5 each day. How many days did she take to spend all her money?

⬜ ⬤ ⬜ = ⬜

She took ⬜ days to spend all her money.

TRY

3B The average number of flowers in a vase is 8.
There is a total of 120 flowers.
How many vases are there? ⬜

The masses of 5 pupils are shown in the table below. However, the total mass of the girls was left out.

	Pupils	Total Mass
Girls	Linda, Elsa	?
Boys	Alvin, Chris, George	104 kg

The average mass of the 5 pupils is 32.8 kg.
Find the average mass of the girls.

Total mass of pupils = ⬭ ◯ ⬭

= ⬭ kg

Total mass of girls = ⬭ ◯ ⬭

= ⬭ kg

Average mass of girls = ⬭ ◯ ⬭

= ⬭ kg

The average mass of the girls was ⬭ kg.

Patrick, Michael, Thomas and John took part in a darts competition. Their average score was 78. What was their total score? ⬭