

Compute the rate of change from a table

NAME	DATE	SCORE / 10
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- 1** The table shows a linear relationship between x and y .

x : 2, 7, 12, 17

y : 15, 10, 5, 0

What is the change in y for each increase of 1 cm x ?

- 2** The temperature in a town falls at a steady rate. The table shows the temperature, in $^{\circ}\text{C}$, after different numbers of hours.

Hours: 1, 3, 5, 7

Temperature: 9, 7, 5, 3

What is the change in temperature, in $^{\circ}\text{C}$, for each hour?

- 3** The table shows a linear relationship between x and y .

x : 1, 5, 9, 13

y : -8.5 , -6.5 , -4.5 , -2.5

What is the change in y for each increase of 1 cm x ?

- 4** A car drives at a steady speed. The table shows how many kilometres it has gone after different numbers of hours.

Hours: 2, 4, 6, 8

Kilometres: 90, 180, 270, 360

How many kilometres does the car go each hour?

- 5** The table shows a linear relationship between x and y .

x : 3, 8, 13, 18

y : 4, -11, -26, -41

What is the change in y for each increase of 1 cm x ?

- 6** The temperature in a town falls at a steady rate. The table shows the temperature, in $^{\circ}\text{C}$, after different numbers of hours.

Hours: 0, 2, 4, 6

Temperature: 9, 5, 1, -3

What is the change in temperature, in $^{\circ}\text{C}$, for each hour?

- 7** The table shows a linear relationship between x and y .

x : 3, 5, 7, 9

y : 7, 3, -1, -5

What is the change in y for each increase of 1 cm x ?

- 8** Water flows into a tank at a steady rate. The table shows the litres of water in the tank after different numbers of minutes.

Minutes: 0, 4, 8, 12

Litres: 19, 59, 99, 139

How many litres of water flow into the tank each minute?

- 9** The table shows a linear relationship between x and y .

x : 2, 6, 10, 14

y : 14, 8, 2, -4

What is the change in y for each increase of 1 cm x ?

- 10** The temperature in a town falls at a steady rate. The table shows the temperature, in $^{\circ}\text{C}$, after different numbers of hours.

Hours: 1, 4, 7, 10

Temperature: 11, 2, -7, -16

What is the change in temperature, in $^{\circ}\text{C}$, for each hour?

Compute the rate of change from a table

1	-1	2	-1
3	0.5	4	45
5	-3	6	-2
7	-2	8	10
9	-1.5	10	-3