

Compute the rate of change from a table

NAME	DATE	SCORE
		/ 10

1

The table shows a linear relationship between x and y.

x: 3, 7, 11, 15

y: -17.5, -31.5, -45.5, -59.5

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

2

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: 1, 6, 11, 16

Litres: 10, 55, 100, 145

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

3

The table shows a linear relationship between x and y.

x: 3, 6, 9, 12

y: 24, 36, 48, 60

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

4

The temperature in a town falls at a steady rate. The table shows the temperature, in °C, after different numbers of hours.

Hours: 3, 6, 9, 12

Temperature: 8, 2, -4, -10

What is the change in temperature, in °C, for each hour?

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

x : 0, 4, 8, 12

y : 16, 8, 0, -8

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

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

Hours: 0, 4, 8, 12

Kilometres: 0, 180, 360, 540

How many kilometres does the car go each hour?

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

x : 0, 4, 8, 12

y : 16, -4, -24, -44

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

- 8** 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: 3, 5, 7, 9

Temperature: 12, 10, 8, 6

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

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

x : 0, 5, 10, 15

y : -5, 15, 35, 55

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: 0, 4, 8, 12

Temperature: 17, 9, 1, -7

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

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1	-3.5	2	9
3	4	4	-2
5	-2	6	45
7	-5	8	-1
9	4	10	-2