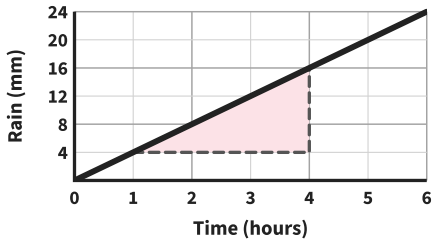
Rates from graphs

1

Rain collects in a rain gauge. Find the rate the rain fills it.



change up = 12 mm

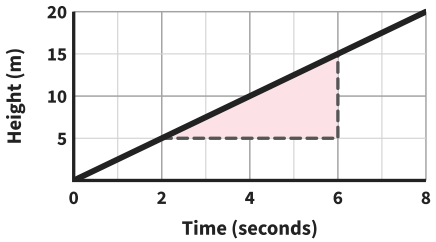
change across = 3 hours

rate = 12 ÷ 3

Rate _____

2

A lift rises from the ground floor. Find the rate it rises.



change up = 10 m

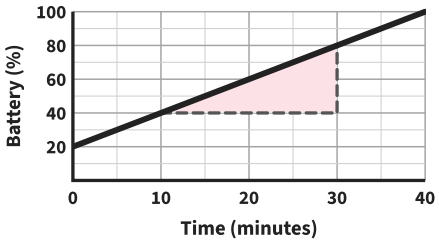
change across = 4 seconds

rate =

Rate _____

3

A phone is charging. Find the rate the battery charges.



change up = 40%

change across =

rate =

Rate _____

4

A window cleaner charges a fixed fee, then the same for each window. Draw a step triangle. Find the cost per window.



change up =

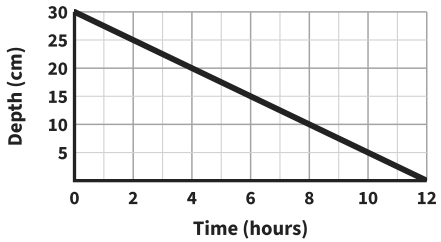
change across =

rate =

Rate _____

5 *Notice the change!*

Snow melts in the sun. Find the rate the depth goes down.



change down =

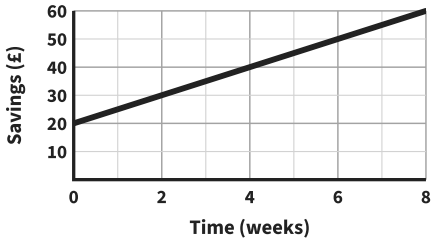
change across =

rate =

Rate _____

6

Zoe saves the same amount each week. What does the 20 on the graph tell you? Find the rate she saves.



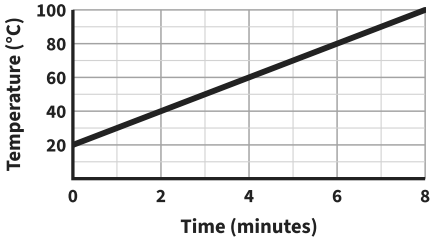
rate =

20 means _____

Rate _____

7

A pan of water heats up. Theo reads 60°C at 4 minutes and says the rate is 60 ÷ 4 = 15°C per minute. Explain his mistake.

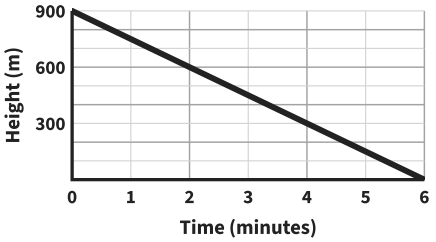


rate =

Rate _____

8

A paraglider comes down to land. What height does she start at? Find the rate she comes down.



change down =

rate =

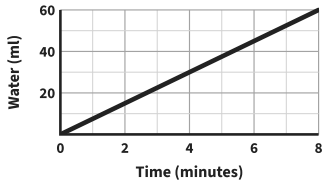
Start (m) _____

Rate _____

Rates from graphs *further practice*

9

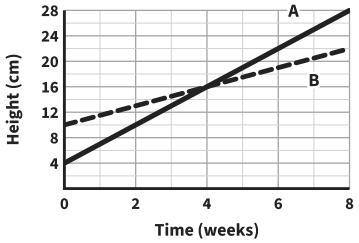
A leaking tap drips into a jug.
Find the rate the jug fills.



Answer _____

10

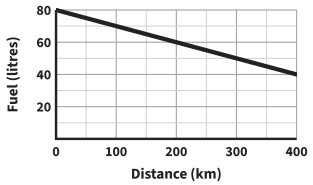
Plant A and plant B grow at steady rates. Which plant grows faster, and by how many cm per week?



Answer _____

11

A lorry uses fuel as it drives.
Find the rate it uses fuel, in litres per km.



Answer _____

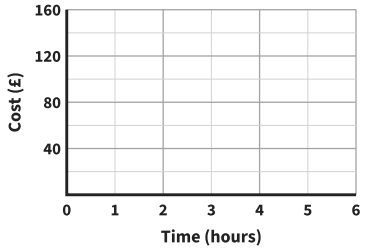
12

A tree is 2.4 m tall in 2020 and 3.6 m tall in 2024. It grows at a steady rate.
Find the rate it grows.

Answer _____

13

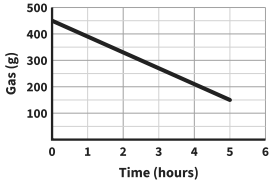
A DJ charges £40 to set up, then £20 per hour. Draw the graph. How much does the DJ charge for 5 hours?



Answer _____

14

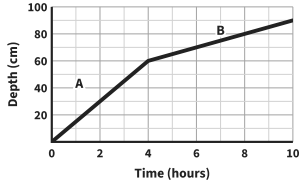
A camping stove uses gas at a steady rate. Find the rate.
How many hours after the start will the gas run out?



Answer _____

15

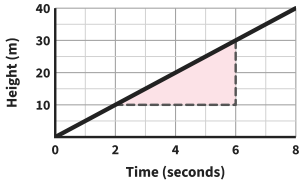
A pond is filled with a hose, part A, then a smaller hose, part B.
Find the rate in each part.
How many times faster is part A?



Answer _____

16

A balloon rises. Leah says the rate is $4 \div 20 = 0.2$ m per second.
Explain her mistake. Find the rate.



Answer _____