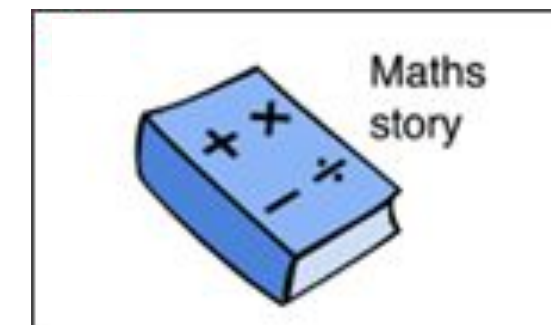# Line graphs and timetables Consolidation and review Worksheet
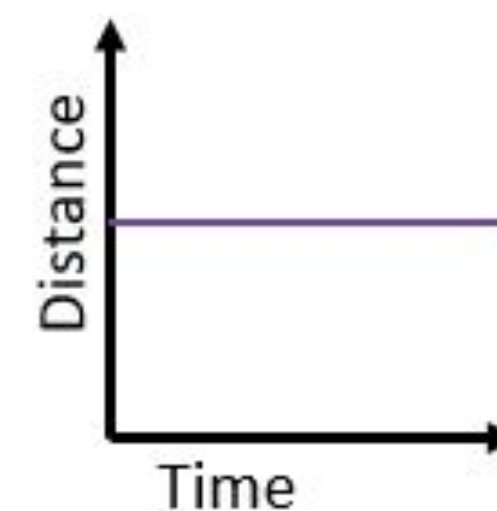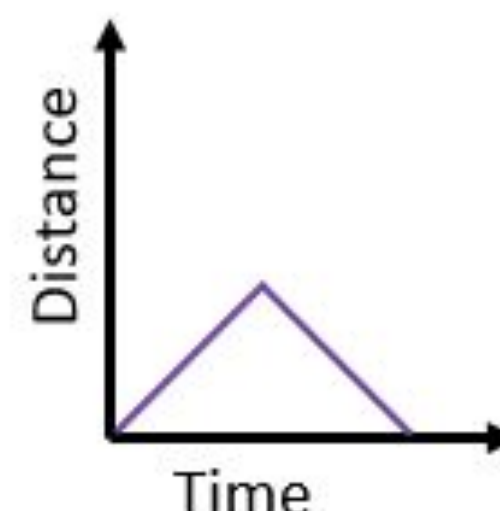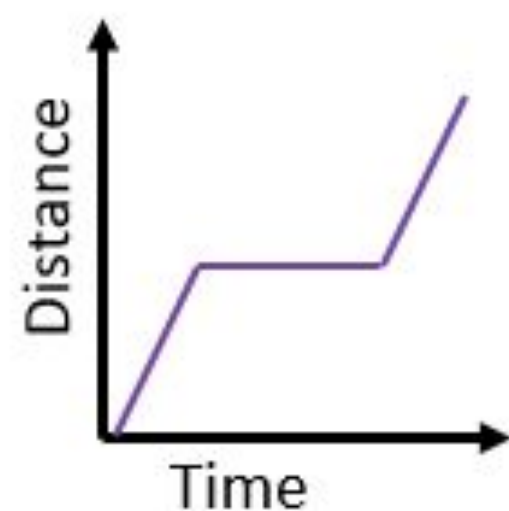
Mr Ward

Match each Maths Story to the line graph.

Explain how you know?
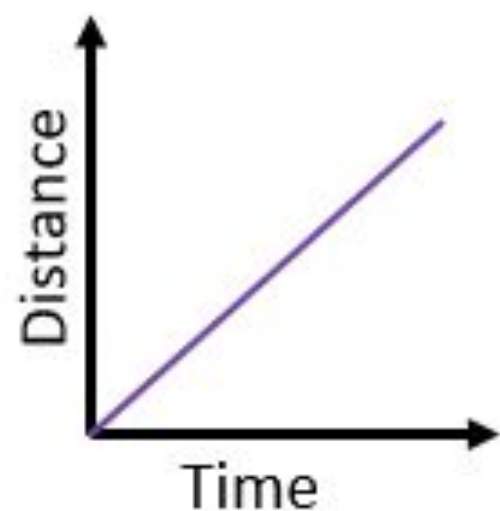
A car is parked in a car park.

A person walks at a constant speed, stops for a break, then carries on.

A bus travels at a constant speed along the motorway.

Can you now create a maths story for the remaining graph?
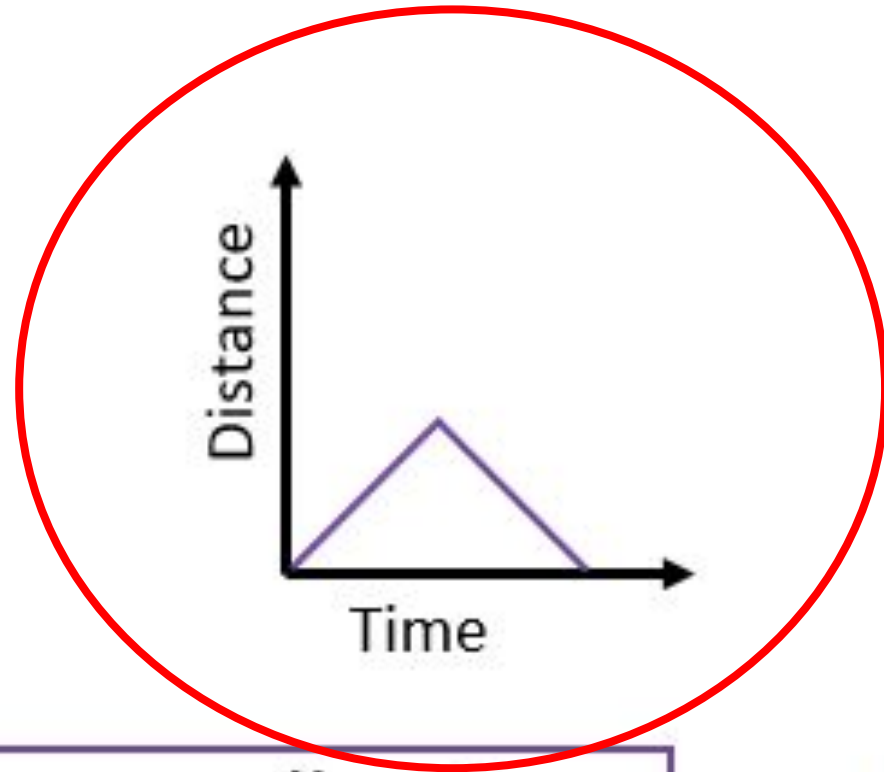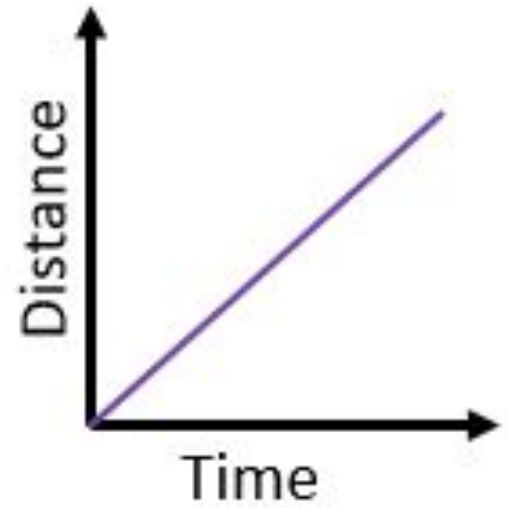
A car is parked in a car park.

A person walks at a constant speed, stops for a break, then carries on.

A bus travels at a constant speed along the motorway.

Decide whether the statements are true or false.
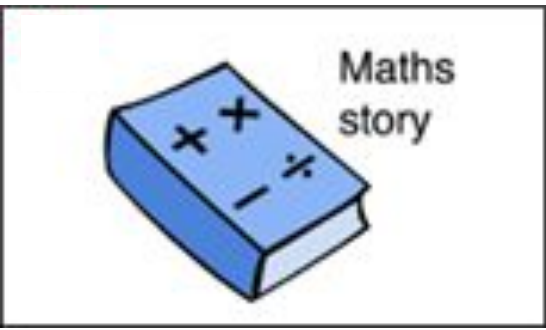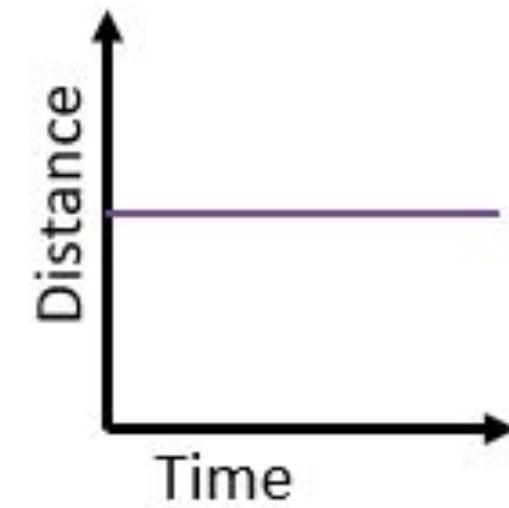
Net profit of Sally's Sweet Shop over 3 years

Net profit (£) vs Months of the year

Legend: 2016, 2017, 2018
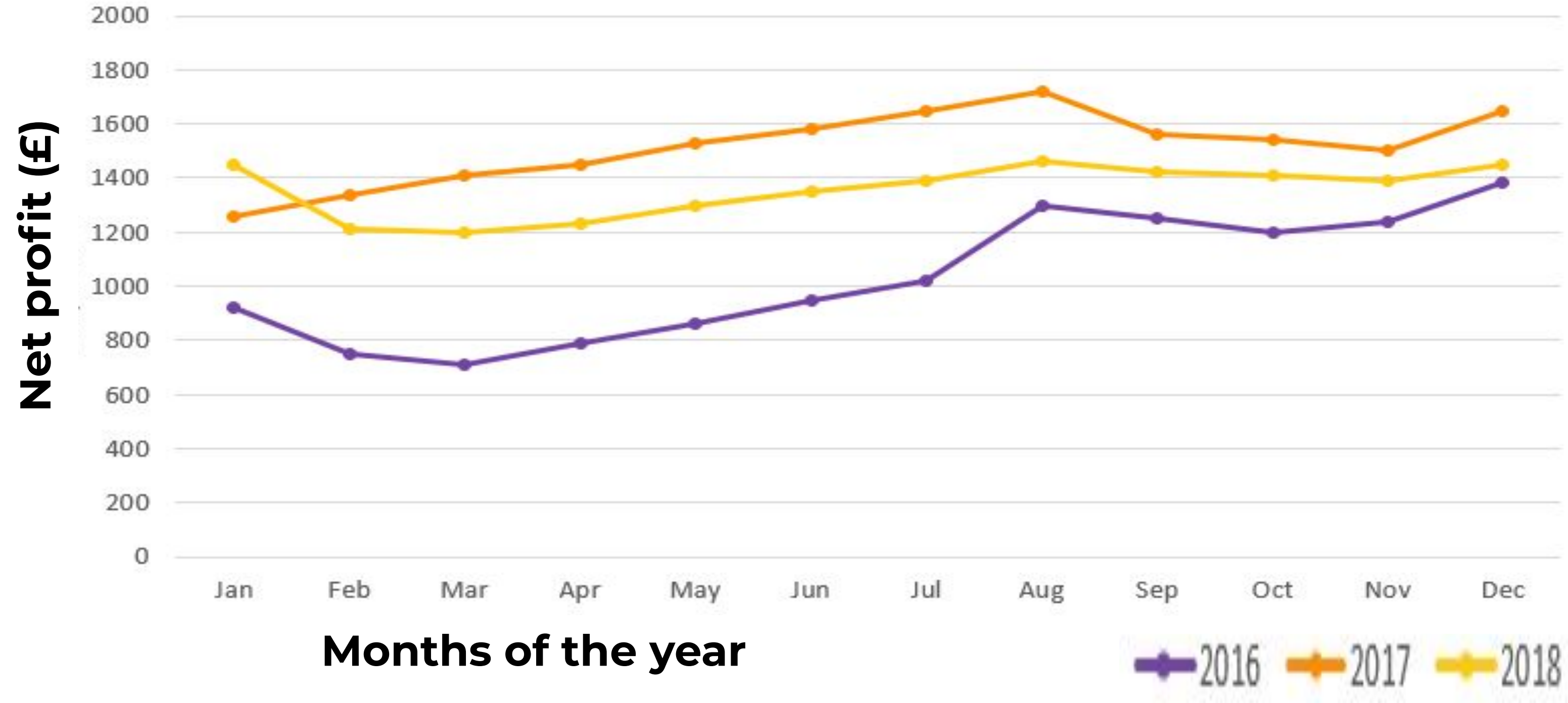
The quietest December for Sally's sweet shop was in 2016.

4

Decide whether the statements are true or false.

Net profit of Sally's Sweet Shop over 3 years

Net profit (£) (y-axis)

Months of the year (x-axis)

Legend: 2016, 2017, 2018
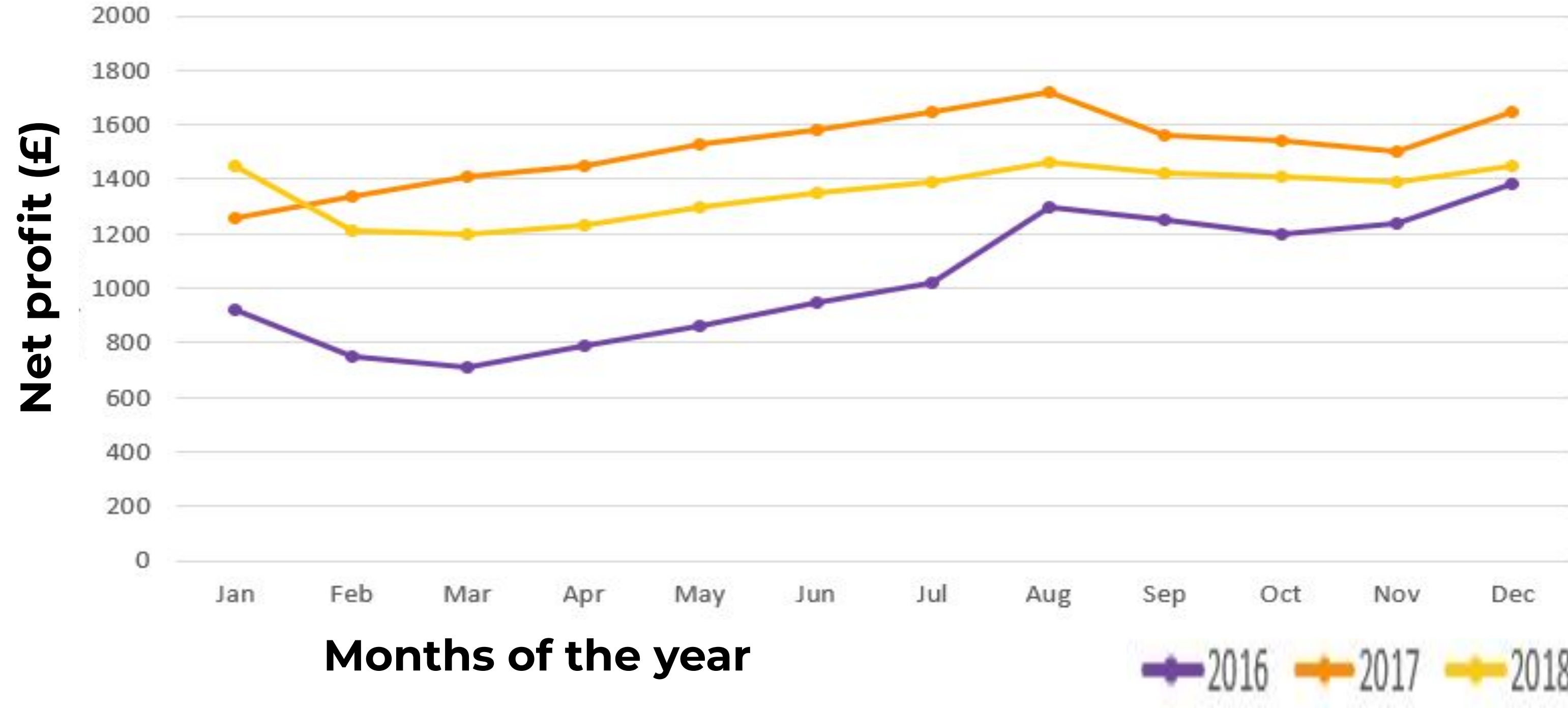
Easter is always the busiest time of the year for the shop

5

Decide whether the statements are true or false.

Net profit of Sally's Sweet Shop over 3 years

Months of the year
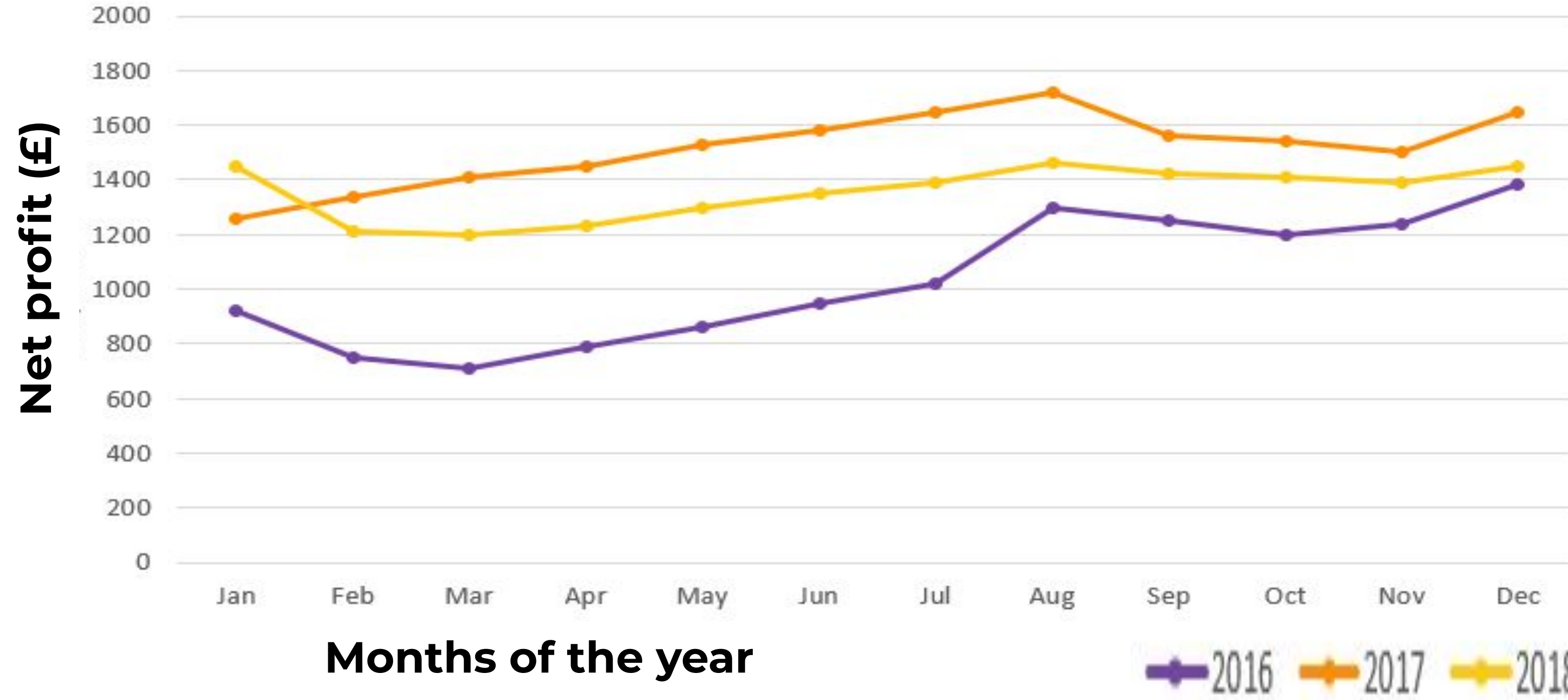
In 2017 the total net profit across the year was under £10,000

Two girls recorded the height of a sunflower over 19 days. Spot the first mistake in the graph.

Line graph showing the change in height of two sunflowers

Height (cm)

Day

Ana's results   Marisa'a results
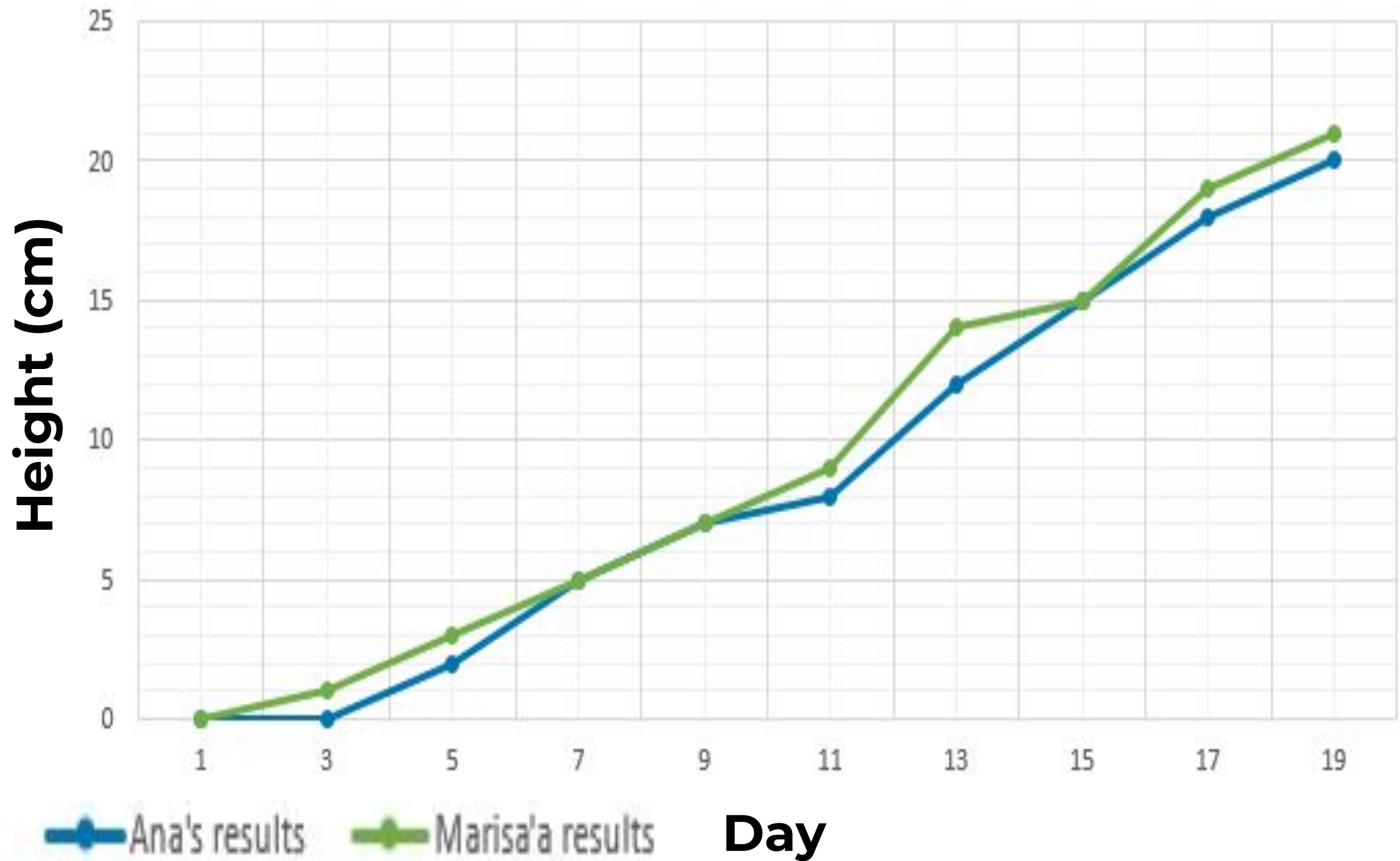
Day	Ana's results (cm)	Marisa's results (cm)
1	0	0
3	0	0
5	0	1
7	2	3
9	5	5
11	7	7
13	10	9
15	12	14
17	15	15
19	18	19
21	20	21

Look carefully at the line graph below.
Can you spot any errors?

Team GB gold medals in cycling

Number of medals (y-axis, 0 to 9)

Olympic Years (x-axis: Sydney 2000, Athens 2004, Beijing 2008, London 2012, Rio 2016)
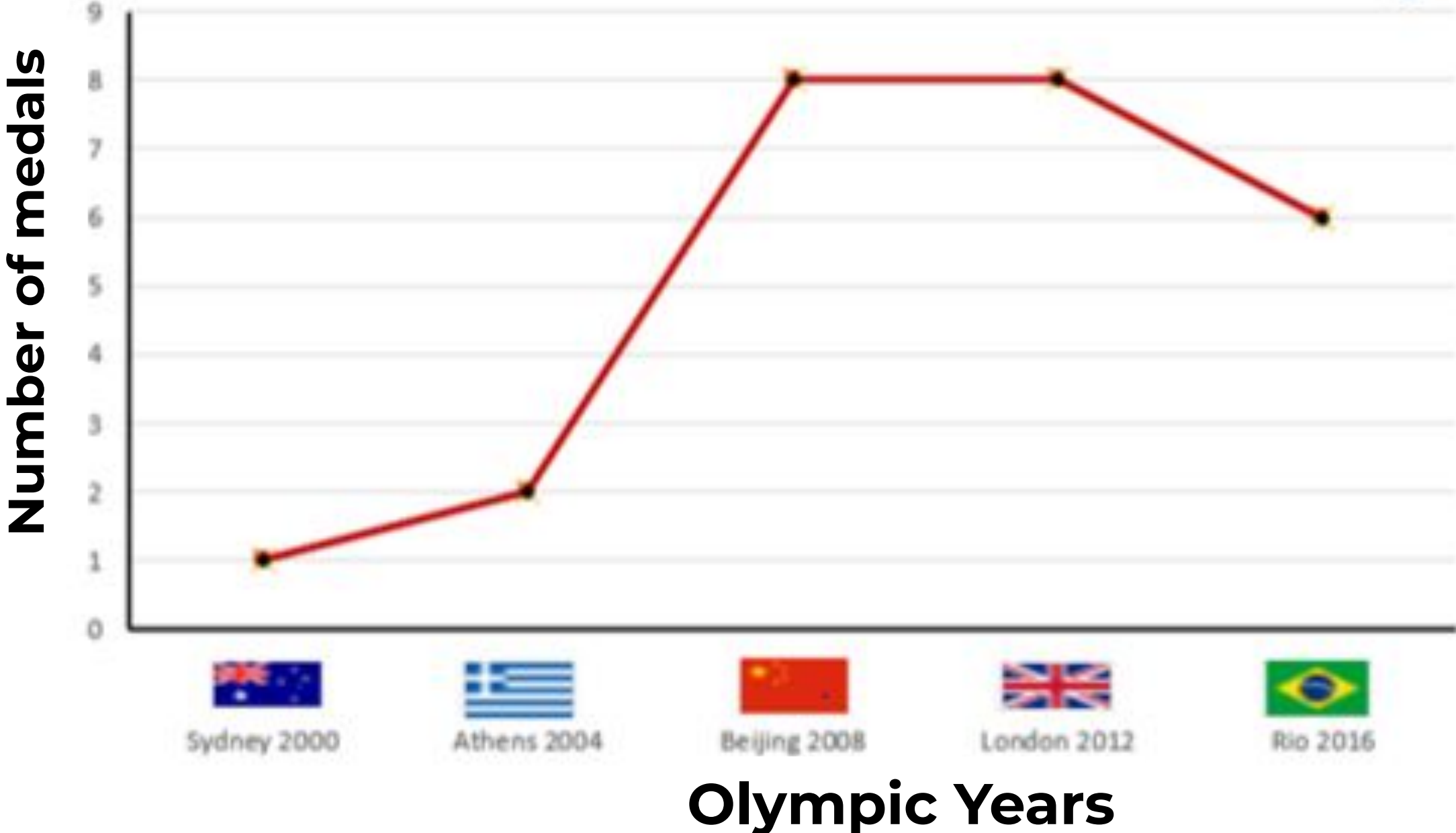
Team GB gold medals in cycling		
Olympic games	Year	Number of gold medals
Sydney	2000	1
Athens	2004	2
Beijing	2006	7
London	2012	7
Rio	2016	6

What's the question?

Team GB gold medals in cycling

Olympic Years
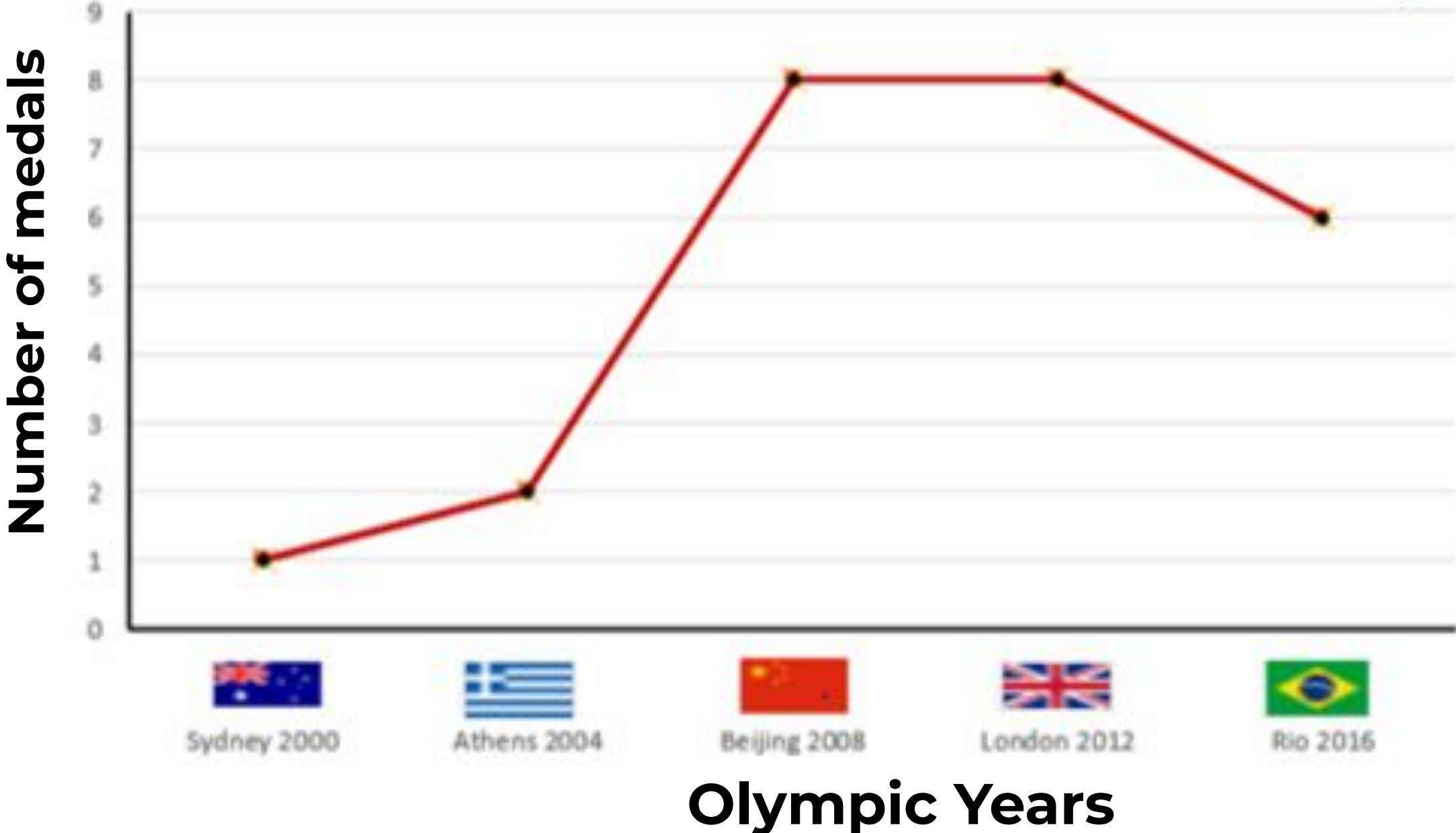
The answer is 6 medals

The answer is 7 medals

Explore the conversion graph
Answer the questions.

Conversion graph £ to $

Jake has 80 pounds that he wants to exchange for dollars. Estimate how many dollars he would receive.

Would it be greater or less than 80?

Explore the conversion graph
Answer the questions.

Conversion graph £ to $
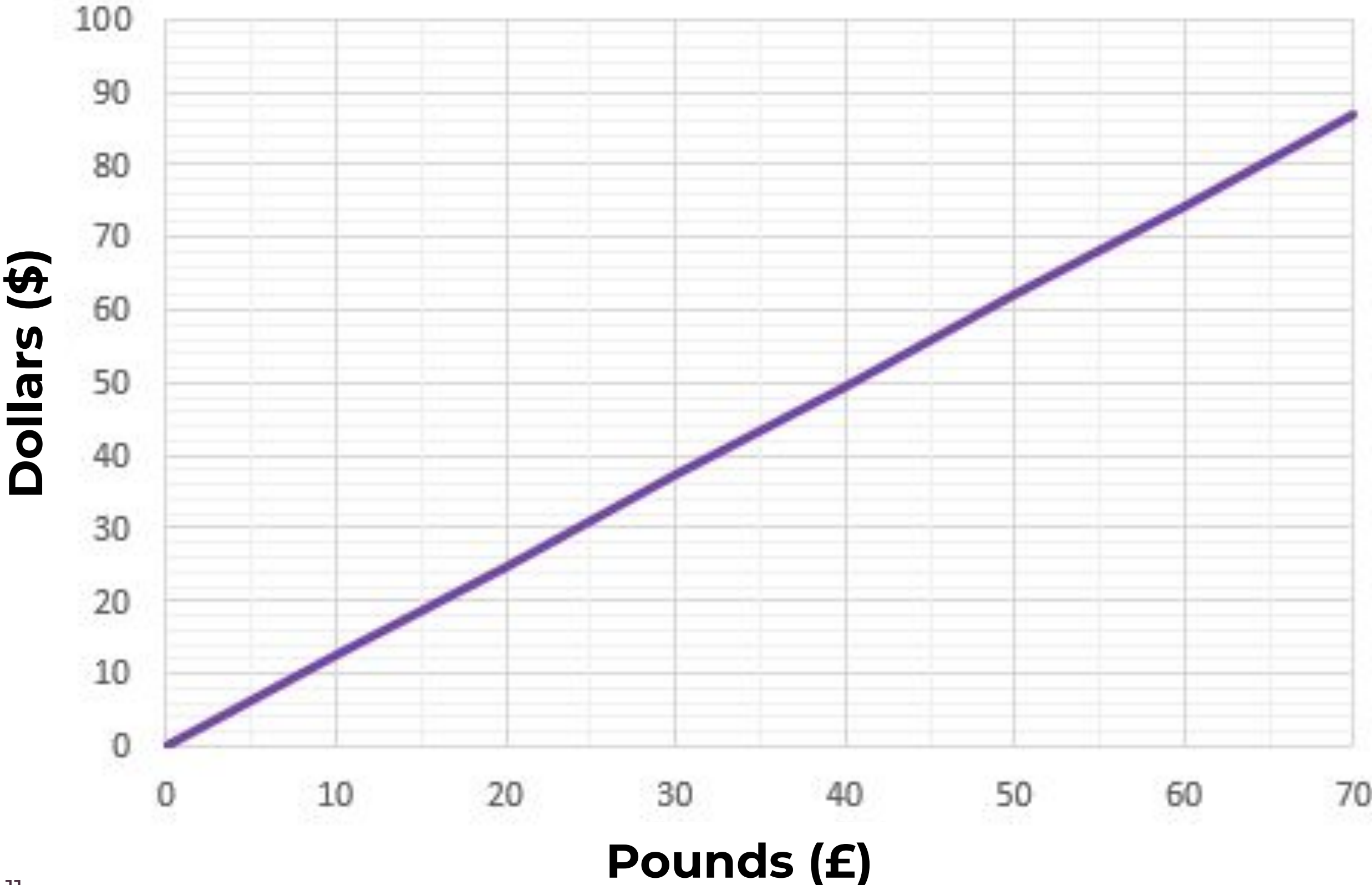
Jake has $100 left from his holiday and wants to convert it pack to pounds so he can buy a new Television which is on sale for £89.99

Will he have enough?

Identifying time intervals using blank number lines

	Trains from London to Penzance					
	London Paddington	Exeter St Davids	Newton Abbot	Plymouth	Truro	Penzance
Train A	10:06	12:06	12:29	13:11	14:37	15:11
Train B	10:40	12:41	13:01	13:49	15:07	15:49
Train C	11:25	13:23	13:44	14:35	15:56	16:45

2 hours   6 mins

13:01   15:01   15:07

12

Using time intervals

	Trains from London to Penzance					
	London Paddington	Exeter St Davids	Newton Abbot	Plymouth	Truro	Penzance
Train A	10:06	12:06	12:29	13:11	14:37	15:11
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Train C	11:25	13:23	13:44	14:35	15:56	16:45

Read the bus timetable below carefully.
Decide whether the statements are true or false.

Bus 76 Timetable   *fast bus – this service has fewer stops

Uxbridge	06:30	07:10*	07:30	08:10*	08:30	09:30	10:30	11:50	13:10
Hayes	06:47	-	07:47	-	08:47	09:47	10: 47	12:07	13:27
Southall	06:55	07.28*	07:55	08:28*	08:55	09:55	10:55	12:15	13:35
West Ealing	07:05	-	08:05	-	09:05	10:05	11:05	12:25	13:45
Ealing Broadway	07:11	07:38*	08:11	08:38*	09:11	10:11	11:11	12:31	13:51

Travelling from Uxbridge to Ealing Broadway, I can save 28 minutes by travelling on the fast bus.

Read the bus timetable below carefully.
Decide whether the statements are true or false.

Bus 76 Timetable   *fast bus – this service has fewer stops

Uxbridge	06:30	07:10*	07:30	08:10*	08:30	09:30	10:30	11:50	13:10
Hayes	06:47	-	07:47	-	08:47	09:47	10: 47	12:07	13:27
Southall	06:55	07.28*	07:55	08:28*	08:55	09:55	10:55	12:15	13:35
West Ealing	07:05	-	08:05	-	09:05	10:05	11:05	12:25	13:45
Ealing Broadway	07:11	07:38*	08:11	08:38*	09:11	10:11	11:11	12:31	13:51

If I get on the 10:30 bus, it takes me 35 minutes to get to West Ealing.

Read the bus timetable below carefully.
Decide whether the statements are true or false.

Bus 76 Timetable   *fast bus – this service has fewer stops

Uxbridge	06:30	07:10*	07:30	08:10*	08:30	09:30	10:30	11:50	13:10
Hayes	06:47	-	07:47	-	08:47	09:47	10: 47	12:07	13:27
Southall	06:55	07.28*	07:55	08:28*	08:55	09:55	10:55	12:15	13:35
West Ealing	07:05	-	08:05	-	09:05	10:05	11:05	12:25	13:45
Ealing Broadway	07:11	07:38*	08:11	08:38*	09:11	10:11	11:11	12:31	13:51

If I want to travel from Hayes to West Ealing for an appointment at 09:00, I can get on the 08:47 bus.