Flashback 4

Warm-Up Challenge

1) Round 7.18 to the nearest whole number



- 2) Write 0.07 as a fraction
- 3) Find the sum of $\frac{1}{3}$, $\frac{1}{5}$ and $\frac{1}{6}$
- 4) What is the mathematical name of the shape?



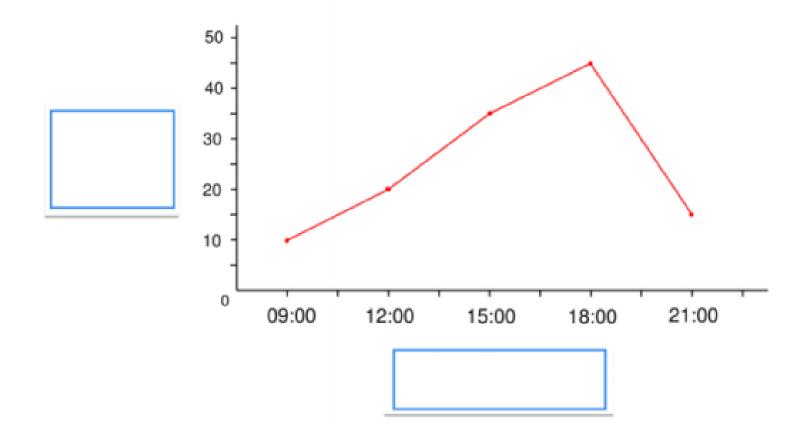
Warm your brains up thinking about the above questions



The horizontal axis on a graph runs from left to right.

The vertical axis on a graph runs from top to bottom.

Label the vertical axis and the horizontal axis on the graph below.



A line graph joins points to show how data changes.

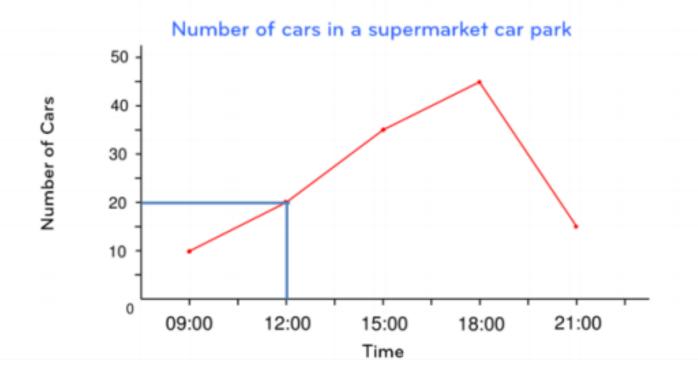
Complete the sentences for this line graph.





Read from 12:00 on the horizontal axis to the line. Then across to 20 on the **vertical axis**.

The point on the line shows that 20 cars were parked at 12:00. How many cars were parked at 21:00?



The **highest** point of the line graph is at 18:00.

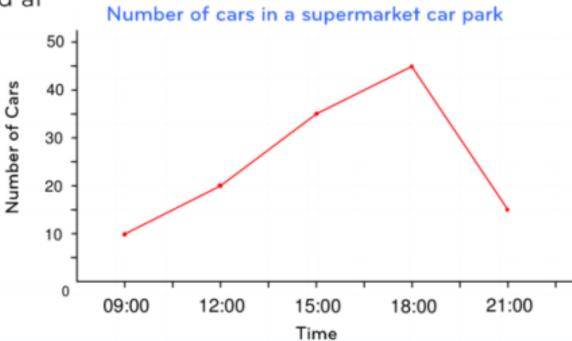
The **highest** point shows the **greatest** number of cars.

1. How many cars were parked at 18:00?



2. Why might the **greatest** number of cars be parked at

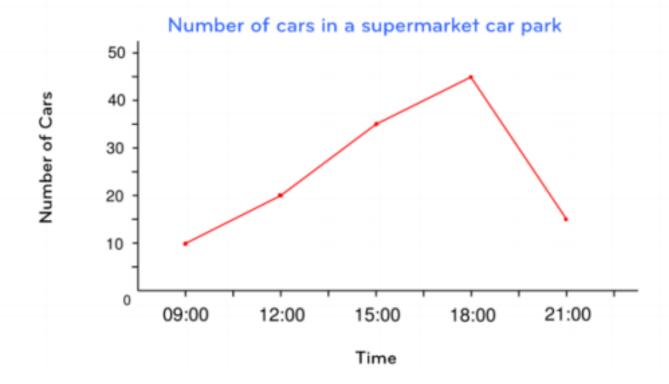
number of cars be parked 18:00?



You can use what you know about **adding** and **subtracting** to solve problems using the data on the graph.

1. How many more cars were parked at 15:00 than at 12:00?



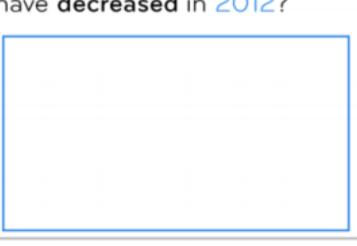


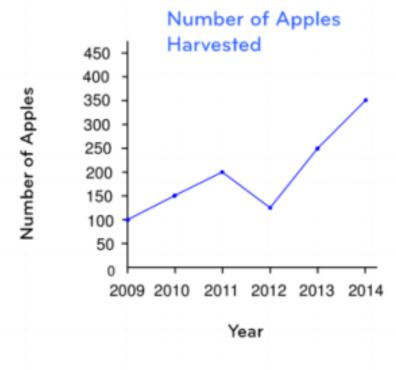
Here is another example. Read from 2010 on the horizontal axis to the line. Then across to 150 on the vertical axis.

The point on the line shows that 150 apples were picked in 2010.

1. How many apples were harvested

2. Why might the number of apples have decreased in 2012?





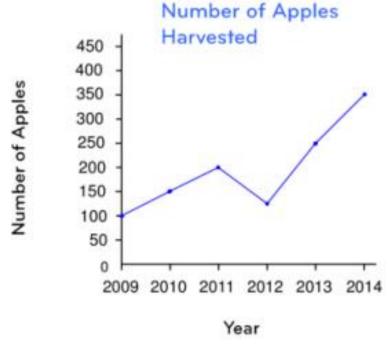
Solve the problems. Use the graph and what you know about **adding** and **subtracting**.

1. What is the difference between the number of apples in 2014 and the number of apples in 2009?



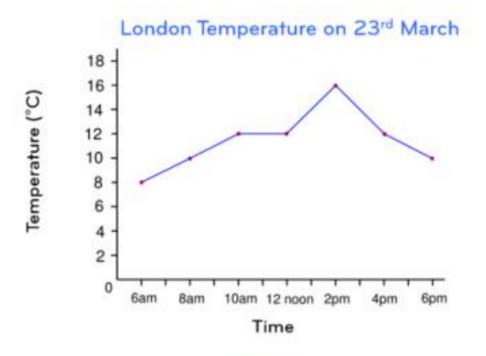
2. What was the total number of apples harvested in 2009 and 2013?





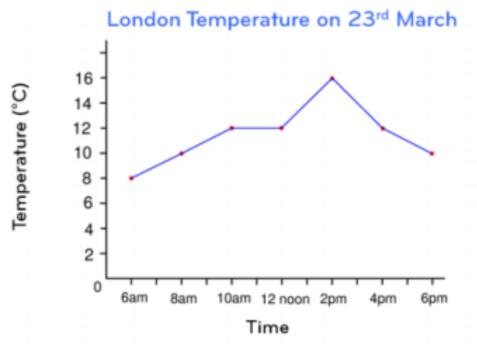
Practice time

Use the line graph to solve the problems.

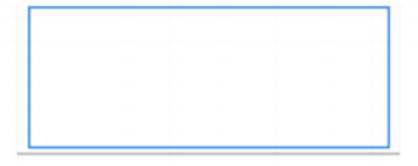


- What was the temperature at 10am?
- 2. Which of these times was the hottest: 10am, 2pm, 4pm?
- 3. Why might there be a lower temperature at 6am than at 4pm?

Practice time



4. How many more degrees was the temperature at 12 noon than at 6pm?



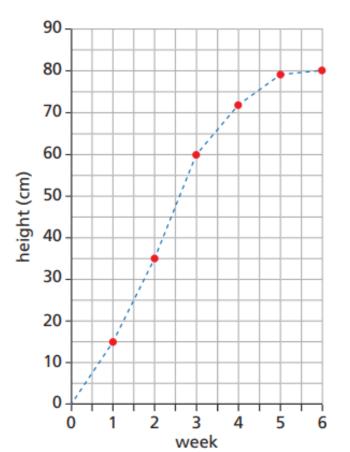
Iona says the greatest temperature recorded on 23rd March was twice the lowest temperature recorded. Is she correct? Explain.





The graph shows the height of a sunflower on the first day of each week for 6 weeks.

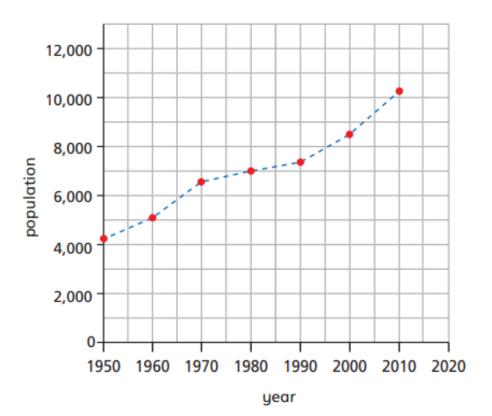
- a) What is the height of the sunflower at the start of week 3?
- b) What is the height of the sunflower at the start of week 2?
- c) Eva thinks the height of the sunflower at the start of week 4 is 75 cm. Explain why Eva is wrong.
- d) By how much does the sunflower grow from the start of week 3 to the start of week 6?





The graph shows the population of a town at the end of each decade from 1950 to 2000

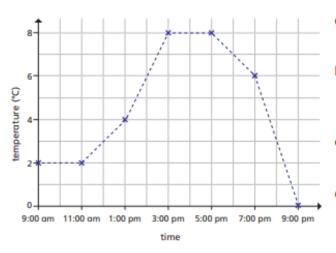
- a) What was the population at the end of 1980?
- b) What was the population at the end of 2000?
- c) Can you accurately tell the population in 1991? Why?
- d) Which decade had the least population increase?
- e) Predict the population at the end of 2020
 Compare answers with a partner.



Beetles:

1

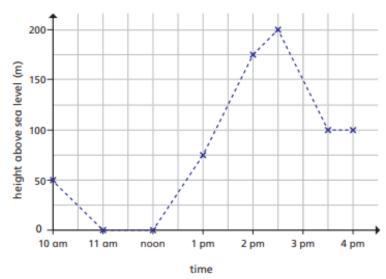
The graph shows the temperature in Birmingham on one day.



- a) What was the temperature at 1:00 pm?
- b) What was the difference in temperature between 11:00 am and 1:00 pm?
- b) Between which times was the temperature increasing?
- d) How often was the temperature recorded?

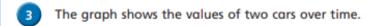
2 Aisha goes for a walk.

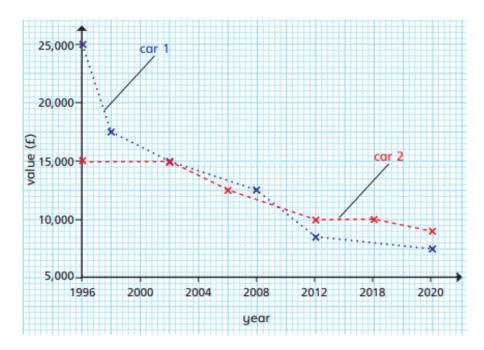
The graph shows the height above sea level during her walk.



- a) What was the height above sea level where Aisha was walking at 2 pm?
- b) At what time in Aisha's walk was she standing 200 m above sea level?

- c) Part of the walk was along a beach.
 Between which times did Aisha walk along the beach?
 How do you know? Talk about it with a partner.
- d) Did the walk start and finish in the same place? Explain how you know.





- a) In which year was the recorded value of the cars the same?
- b) In which two years was the difference in the recorded values of the two cars the same?
- c) Which car's value decreased the most between 1996 and 2020?
- d) For approximately how many years was the value of car 2 greater than the value of car 1?

Which answer?

This graph shows the distance travelled by a cyclist.

What is happening at the point showed by the arrow?

