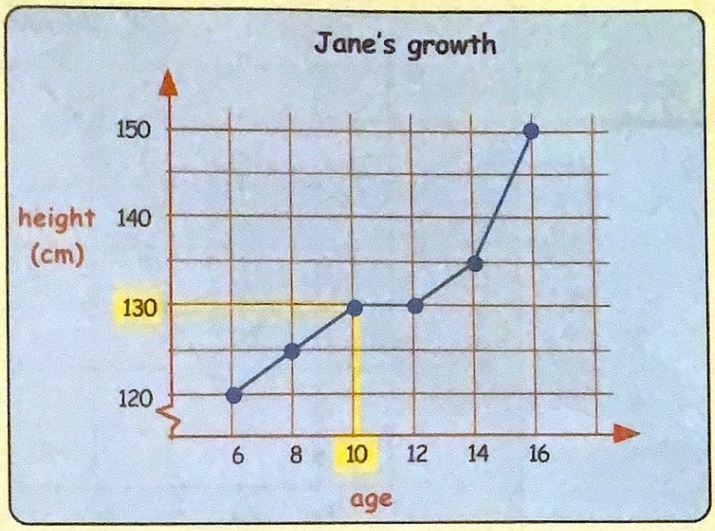
Line graphs can be used to compare values which change with time.

Example :-

This line graph shows Jane's height from the age of 6 up to 16.

The yellow shaded line shows that when Jane was 10 years old she was 130 cm tall.



7. Use the **line graph** above to answer the following :-

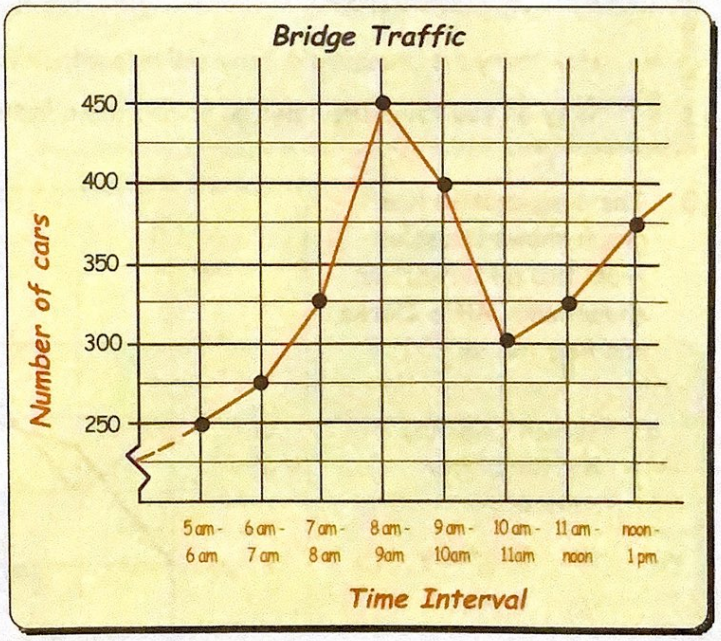
   a How tall was Jane at the age of :- (i) 6 (ii) 12 (iii) 14 ?

   b How old was Jane when she was 150 cm tall ?

   c How old was Jane when she was 125 cm tall ?

   d Estimate the height of Jane at 15 years of age.

8. The line graph shows the number of cars that passed over the Golden Gate bridge one Friday.



   a How many cars passed over the bridge between :-

      (i) 5 am and 6 am

      (ii) 7 am and 8 am

      (iii) 9 am and 10 am

      (iv) 11 am and noon

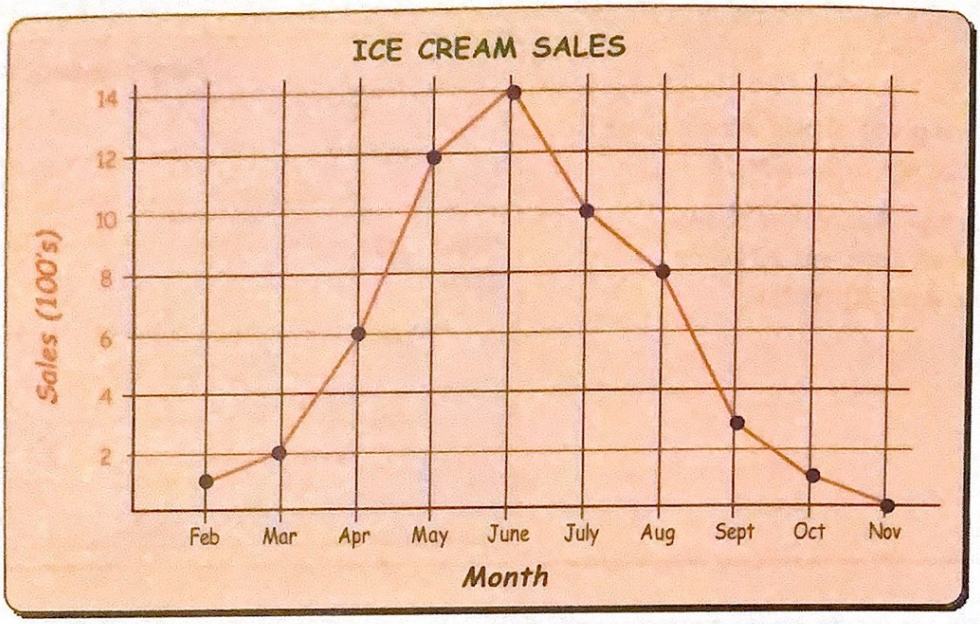
      (v) noon and 1 pm ?

   b During what time interval did 450 cars pass over the bridge ?

   c Between what two time intervals was there the biggest **increase** in traffic ?

   d Why do you think the traffic was busiest between 8 am and 9 am ?

9. The line graph shows the ice cream sales (in 100's) from **Tony's Van** from Feb to Nov 2011.



a How many ice creams did Tony sell in April ? (in 100's)

b How many ice creams did Tony sell in :-

(i) March (ii) June (iii) September ?

c By how much did the sales **increase** between May and June ?

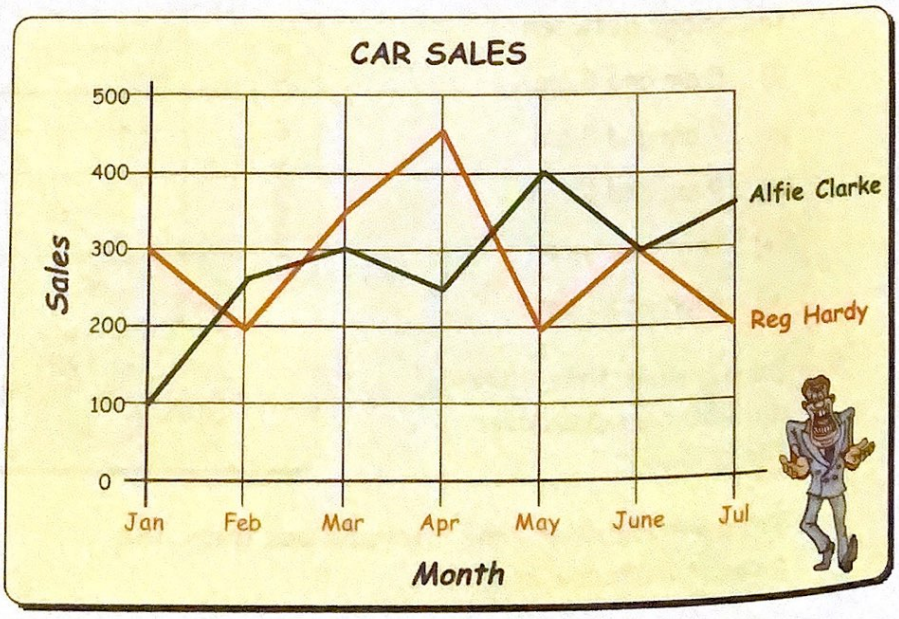
d Between which two consecutive months did sales :-

(i) rise the most ? (ii) fall the most ?

e How many ice creams did Tony sell altogether from April to August ?

f Why do you think the sales go up and down in this way ?

10. The **comparative** line graph shows the sales from two different car showrooms, **Alfie Clarke** and **Reg Hardy**.



a Which company had the better sales in :-

(i) February

(ii) April

(iii) May

(iv) June ?

b How many cars were sold by each company in :- (i) May (ii) March (iii) April ?

c Over the months shown, which company had the better (**total**) sales ?