Year 5 Home Learning

This week the written piece of work is for Maths and will completed in the Maths Home Learning book. There also an English Task to be completed online (no need to hand anything in).

Due Date: Sunday 29/09/19

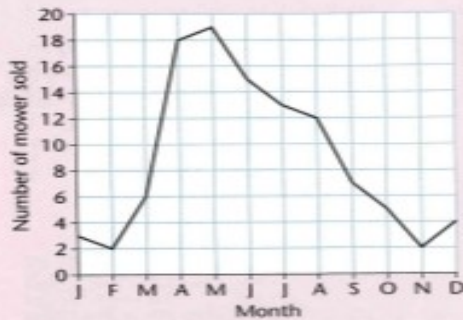## Maths: Statistic—Line Graphs

Walt: Solve problems using information represented on a line graphs

A line graph consists of a series of points connected by straight lines—they are often used to show how something changes over time. To read the graph we need to locate the points on both axis (X & Y)

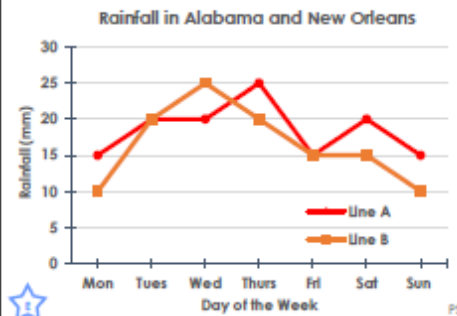Choose your challenge: you will need to complete the Do It, Use It OR Own It

Do It:

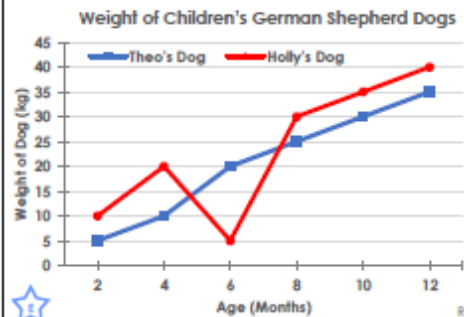This graph shows the monthly sales of lawnmowers at a garden centre.

1. In which months were:
   a) most mowers sold
   b) fewest mowers sold?

2. How many mowers were sold in:
   a) March
   b) August?

3. In which month were:
   a) 4 mowers sold
   b) 15 mowers sold?

4. In which month was there:
   a) the largest rise in sales
   b) the largest fall in sales?

5. How many more mowers were sold in October than in November?

6. How many fewer mowers were sold in February than in May?

7. How many fewer mowers were sold in the first three months of the year than in the next three months?

8. In how many months were there:
   a) more than 10 mowers sold
   b) less than 5 mowers sold?

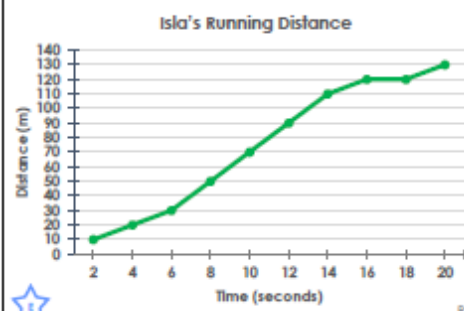9. How many mowers were sold in the year altogether?

Use It:

4b. Last week, it rained less in Alabama than it did in New Orleans. Which line represents Alabama's rainfall?

Rainfall in Alabama and New Orleans

5b. Martin made a mistake when he plotted his line graph. Where do you think the mistake was made? Convince me.

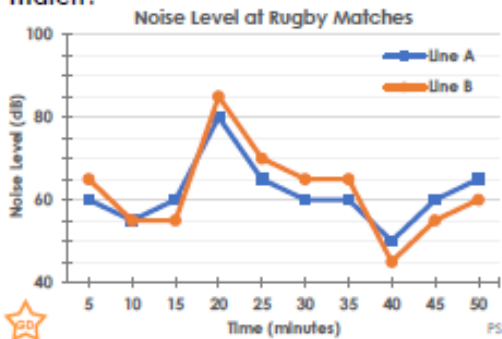Weight of Children's German Shepherd Dogs

6b. Isla said that the distance she ran increased between 16 and 18 seconds. Is she correct? Explain why.
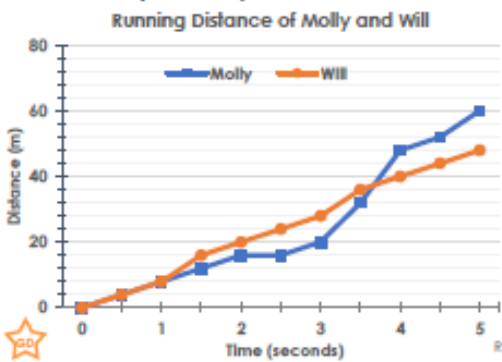
Isla's Running Distance

7b. The rugby match at Hull had a lower noise level overall than the match at Halifax. Which line represents the Halifax match?

Noise Level at Rugby Matches

8b. Emilio made a mistake when he plotted his line graph. Where do you think the mistake was made? Convince me.

Average Height of Two Classes in Year 5

9b. Molly thinks she was quicker than Will in the first 2.5 seconds of the race. Is she correct? Explain why.

Running Distance of Molly and Will

Optional Challenge—Plotting Line Graphs

The table below shows the temperature in Hull over a single day

Time	Temperature (°C)
6am	1.5
8am	4
10am	7.5
12pm	12.5
2pm	9
4pm	6
6pm	4.5

Draw a line graph in your book and plot this information on it. Think carefully about what information should go on the X and Y axis.

Can you create 3 questions about the data and graph? Don't forget to answer them!