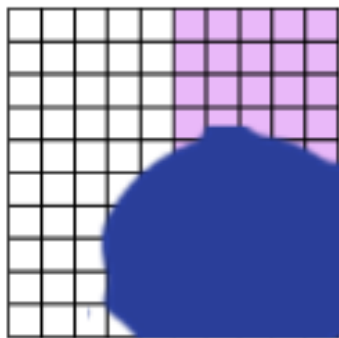


Understand Percentages (Monday)

Oh no! Dexter has spilt ink on his hundred square.



Complete the sentence stems to describe what percentage is shaded.

It could be...

It must be...

It can't be...

Mo, Annie and Tommy all did a test with 100 questions. Tommy got 6 fewer questions correct than Mo.

Name	Score	Percentage
Mo	56 out of 100	
Annie		65%
Tommy		

Complete the table.

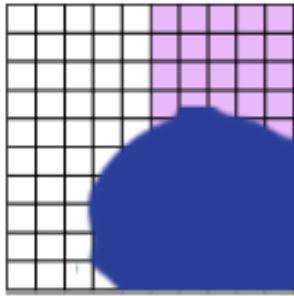
How many more marks did each child need to score 100%?

Dora and Amir each have 100 sweets. Dora eats 65% of hers. Amir has 35 sweets left.

Who has more sweets left?

Understand Percentages ANSWERS (Monday)

Oh no! Dexter has spilt ink on his hundred square.



Complete the sentence stems to describe what percentage is shaded.

It could be...

It must be...

It can't be...

Some possible answers:

It could be 25%

It must be less than 70%

It can't be 100%

Mo, Annie and Tommy all did a test with 100 questions. Tommy got 6 fewer questions correct than Mo.

Name	Score	Percentage
Mo	56 out of 100	
Annie		65%
Tommy		

Complete the table.

How many more marks did each child need to score 100%?

56%
65 out of 100
50 out of 100
50%

Mo needs 44
Annie needs 35
Tommy needs 50

Dora and Amir each have 100 sweets. Dora eats 65% of hers. Amir has 35 sweets left.

Who has more sweets left?

Neither. They both have an equal number of sweets remaining.

Percentages as Fractions and Decimals (Tuesday)

Teddy says,



To convert a fraction to a percentage, you just need to put a percent sign next to the numerator.

Is Teddy correct? Explain your answer.

At a cinema, $\frac{4}{10}$ of the audience are adults.

The rest of the audience is made up of boys and girls.

There are twice as many girls as boys.

What percentage of the audience are girls?

Three children have each read 360 pages of their own book.

Ron's book has 500 pages.

Dora's book has 400 pages.

Eva's book has 600 pages.

What fraction of their books have they each read?

What percentage of their books have they read?

How much of their books have they each read as a decimal?

Who has read the most of their book?

Percentages as Fractions and Decimals ANSWERS (Tuesday)

Teddy says,



To convert a fraction to a percentage, you just need to put a percent sign next to the numerator.

Teddy is incorrect, this only works when the denominator is 100 because percent means parts per hundred.

Is Teddy correct? Explain your answer.

At a cinema, $\frac{4}{10}$ of the audience are adults.

The rest of the audience is made up of boys and girls.

There are twice as many girls as boys.

What percentage of the audience are girls?

60% are children, so 40% are girls and 20% boys.

Children may use a bar model to represent this problem.

Three children have each read 360 pages of their own book.

Ron's book has 500 pages.

Dora's book has 400 pages.

Eva's book has 600 pages.

What fraction of their books have they each read?

What percentage of their books have they read?

How much of their books have they each read as a decimal?

Who has read the most of their book?

Ron has read $\frac{360}{500}$, 72% or 0.72

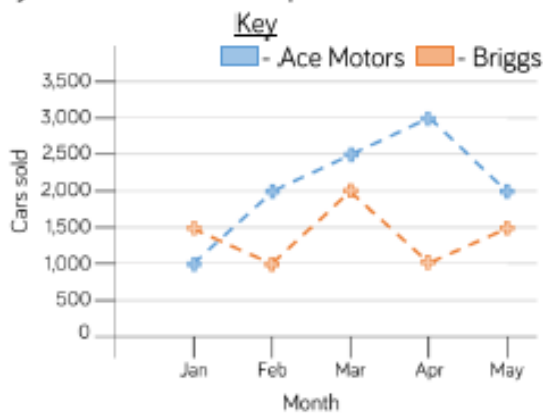
Dora has read $\frac{360}{400}$, 90% or 0.9

Eva has read $\frac{360}{600}$, 60% or 0.6

Dora has read the most of her book.

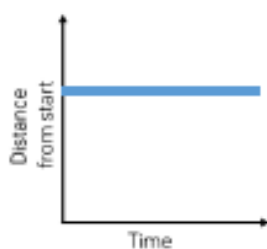
Read and Interpret Line Graphs (Wednesday)

The graph shows the number of cars sold by two different companies.

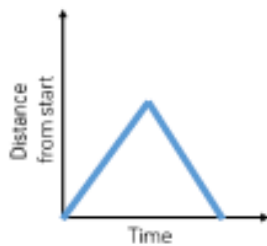


- How many more cars did Ace Motors sell than Briggs in April?
- From January to March, how many cars did each company sell? Who sold more? How many more did they sell?
- Crooks Motors sold 250 more cars than Briggs each month. Plot Crooks Motors' sales on the graph.

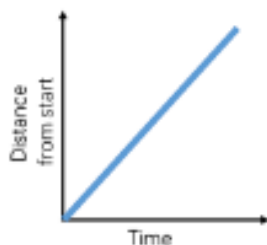
Match the graph to the activity.



A car travels at constant speed on the motorway.



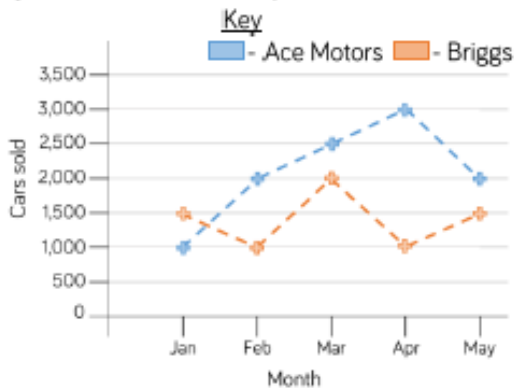
A car is parked outside a house.



A car drives to the end of the road and back.

Read and Interpret Line Graphs ANSWERS (Wednesday)

The graph shows the number of cars sold by two different companies.



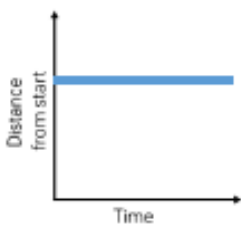
- How many more cars did Ace Motors sell than Briggs in April?
- From January to March, how many cars did each company sell? Who sold more? How many more did they sell?
- Crooks Motors sold 250 more cars than Briggs each month. Plot Crooks Motors' sales on the graph.

2,000

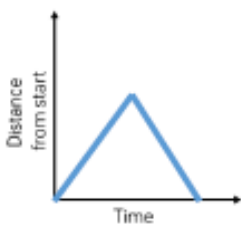
Ace 5,500
Briggs 4,500
Difference of 1,000
Ace sold more.

Points on graph are all half an interval up from Briggs.

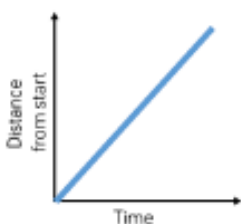
Match the graph to the activity.



A car travels at constant speed on the motorway.



A car is parked outside a house.



A car drives to the end of the road and back.

The first graph matches with the second statement.

Second graph with the third statement.

Third graph with the first statement.

Problems with Line Graphs (Thursday)

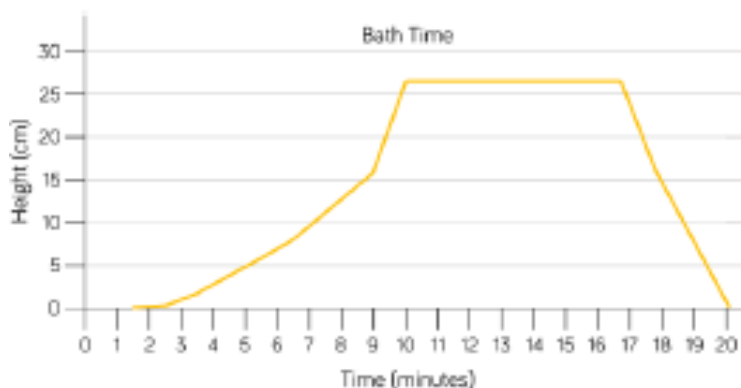
Carry out your own exercise experiment and record your heart rate on a graph like the one shown in the section above. How does it compare?



Can you make a set of questions for a friend to answer about your graph?

Can you put the information into a table?

Here is a line graph showing a bath time. Can you write a story to explain what is happening in the graph?



How long did it take to fill the bath?

How long did it take to empty?

The bath doesn't fill at a constant rate. Why might that be?

Problems with Line Graphs ANSWERS (Thursday)

Carry out your own exercise experiment and record your heart rate on a graph like the one shown in the section above. How does it compare?



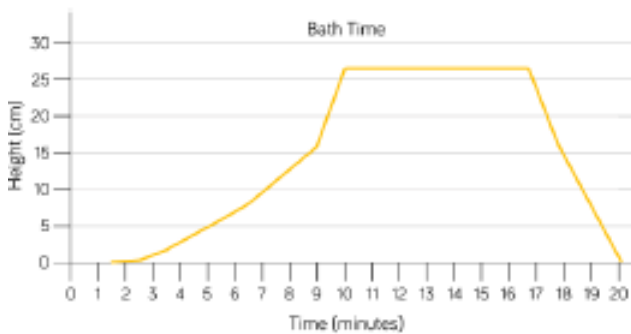
Can you make a set of questions for a friend to answer about your graph?

Can you put the information into a table?

Various answers.

Children can be supported by being given part-drawn line graphs.

Here is a line graph showing a bath time. Can you write a story to explain what is happening in the graph?



How long did it take to fill the bath?

How long did it take to empty?

The bath doesn't fill at a constant rate. Why might that be?

Discussions around what happens to the water level when someone gets in the bath would be useful.

Approximately 9 and a half mins to fill the bath.

Approximately 3 and a half mins to empty.

One or two taps could be used to fill.