

Tuesday

14.07.2020

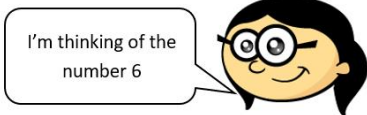
Good morning Longboats, how are you today?

Starter

1 What are the missing digits?

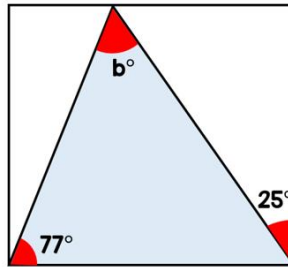
$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array} = \begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array}$$

2 Annie and Ron each think of a number.



The product of their numbers is 762
Work out Ron's number.

3 Find the size of angle b.

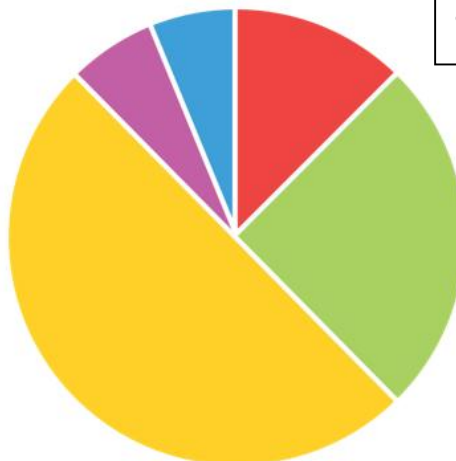


Main Activity

Today, we are going to keep looking at pie charts. I've set some of you some pie chart work on Mathematics too so that I can check you are understanding it.

Favourite Subject

-  Art
-  History
-  English
-  PE
-  IT



Hillsdene school asked their 320 pupils what their favourite subject was. This pie chart shows their answers.



1. What fraction of children said their favourite subject was PE?
2. Which two subjects were the fourth most popular?
3. How many children said their favourite subject was English? Can you use deriving to help you work it out?
4. Use the inverse to check your answer to question three. Were you correct?



1. Priya thinks $\frac{1}{8}$ of children said their favourite subject was History and Desiree thinks it was $\frac{1}{5}$. Who is correct? Can you prove it?
2. What fraction of children picked ICT and Art altogether?
3. Ste thinks that the sum of the children who picked ICT, Art, History and PE must equal 160. Do you agree? Can you draw a diagram or write an explanation to show you are correct?
4. Can you label the pie chart to show how many children chose each subject?



1. Can you use equivalent fractions to prove that ICT is $=$ to $\frac{1}{16}$ of the whole pie chart?
2. 30 children were absent on the day that this survey was done.
"If they all answer PE, it will overtake English", said Maggie. Do you agree? Prove that you are correct.
3. How many degrees of the whole circle is the History slice of the pie? How do you know?
4. When the 30 absent children came back in, 8 of them chose English, 10 of them chose PE, 6 chose History and the rest chose IT. How will this change the overall pie chart?