Morning y5 Tuesday 30th June

Today you are firstly going to work out some Ancient Greek problems and then secondly carry out a consecutive number investigation.

You must decide whether you need to add, subtract, multiply or divide here.

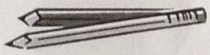
Remember that to find a fraction of an amount you need to divide by the denominator

e.g one fifth of 25 = 5

3 fifths = one fifth (5) x 3 because we need 3 "lots of" a fifth or 3 lots of fives

GREEK-THEMED MATHS PROBLEMS

1. There were 1346 boys in the Athenian School. One day half of them wore blue tunics. How many children wore blue?



2. There are 96 spears in 8 boxes. How many spears are there in each box?

3. The Greek Gymnasium has 78 large training balls. A sixth of them need mending. How many cannot be used?

4. Zeus bought 7 loaves of bread for his party. It cost 91 drachma. How much was one loaf?

5. Ariadne had 67 bunches of grapes. She can fit 9 bunches on a tray. How many full trays did she have?

6. The Spartan Army has to march 60 miles. They can march 7 miles a day. How many days did it take them?

7. A Greek Farmer had 115 goats. He could fit 8 goats in each of his pens. How many pens did he need?

Scroll down, down....for answers...

CONSECUTIVE NUMBER INVESTIGATION

Now, remember that consecutive numbers are a sequence of numbers or "next-door numbers".

I want you to think of adding all the numbers in a sequence of 3 consecutive numbers under 50

e.g 34 35 36 = total of 105.

Now test this **mathematical statement** below using a) 3 numbers below 50

b) 3 numbers above 100 c) 4 even numbers over 75 d) 4 odd numbers over 75

e) 5 numbers between 40 and 75

Each time you will have to add the numbers one after the other and then check if this **statement** works. Check your answers here with a calculator.

The Mathematical Statement:

You can add any sequence of consecutive numbers, even or odd, regardless of the amount of numbers in the sequence by adding the first and the last number in the then dividing it by two and then multiplying by the amount of numbers in the sequence.

So you will begin your investigation with three consecutive numbers.

Your amount of numbers in the sequence will be 3 to begin with.

Answers

1) 673 wore blue

2) 12 spears

3) 13 need mending

4) 13 drachma

5) 7 full trays

6) just over $8\frac{1}{2}$ days

7) 15 pens needed.