

Dear Parent and Dipsite,

The questions of the second edition of 'Magical Math' are as below:-

1. A group of friends and myself went on a holiday to a hill station. It rained for 13 days. But when it rained in the morning the afternoon was lovely. And when it rained in the afternoon the day was preceded by a clear morning.
Altogether there were 11 nice mornings and 12 very nice afternoons. How many days did our holiday last?

2. What is wrong with this proof?

$$a = b$$

$$a^2 = ab$$

$$a^2 - b^2 = ab - b^2$$

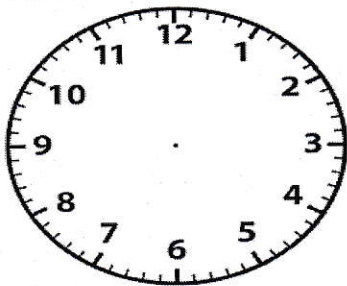
$$(a + b)(a - b) = b(a - b)$$

$$a + b = b$$

$$2b = b$$

$$2 = 1$$

3. Here is the face of a clock.



Can you cut the face of the clock into six parts of any shape in such a way that the aggregate number in all of them is the same?

4. Here is a multiplication:

$$159 \times 48 = 7632$$

Can you see something peculiar in this multiplication? Yes, all the nine digits are different. How many other similar numbers can you think of? Write as many as you can.

5. 24 children are attending a flag hoisting ceremony. How can you arrange them in six rows with each row comprising 5 children?

Please do participate!

Principal