

Sample Question for Level 2 (class 4)

1. If two lines are perpendicular to each other, can they be parallel to each other?
2. If I know one number 1110 and I do the following operation on this number we get this : $1*2^3 + 1*2^2 + 1*2^1 + 0*2^0 = 14$;

Now if I have 01001111 this number and if we do the same operation on this number, what number we would get after the operation?

3. What would be the no of * in the 10th row in the below picture? We have shown upto 4th rows in the below picture, but the rows are continued upto 100 rows.

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      *
     * *
    * * * *
   * * * * *
  .....
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4. Find the required number to satisfy the below mathematical operation

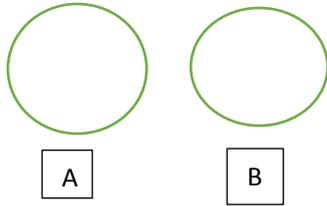
$$\boxed{128} \otimes \boxed{128} = \boxed{2^?}$$

5. We break 20 in the following way:
 $20 = 2*2*5$ and then we take only non-repetitive numbers and get 2, 5.
 Similarly if we break 70 and tell us all the non -repetitive numbers getting from 70
6. Find the sum of the following
 $2+4+6+8 \dots +996+998 +1000 - 1-3-5 -\dots-995 - 997 -999$
7. If I have a coin and I toss it 6 times. How many times I can get the tail if the chances of getting tail and chances of getting head are equal?
8. Fill with the appropriate operator in place of?

$$\boxed{\frac{1}{96}} > \boxed{\frac{1}{456}} ; \quad \boxed{-\frac{1}{96}} ? \boxed{-\frac{1}{456}}$$

9. Find out the fraction which we can multiply with 7 and get 1?

10.



Circle A represents 20 students of history and Circle B represent 40 students. If the total students in a class are 50. Find out the No. of students who has both the subjects?