

WHOLE NUMBERS

HOTS QUESTIONS

1. The height of a slippery pole is 10 m and an insect is trying to climb the pole. The insect climbs 5 m in 1 minute and then slips down by 4 m. In how much time will insect reach the top? [Ans: 6 minutes].
2. Which is greater, the sum of first twenty whole numbers or the product of first twenty whole numbers? [Ans: Sum of first twenty whole numbers].
3. If a whole number is divisible by 2 and 4, is it divisible by 8? [Ans: May not].
4. On dividing a number by 9 we get 47 as a quotient and 5 as remainder. What is the number? [Ans: 428].
5. Fill in the blanks: $738 \times 335 = 738 \times (300 + 30 + \dots)$ [Ans: 5].
6. $1 + 3 = 4 = 2 \times 2$
 $1 + 3 + 5 = 9 = 3 \times 3$
 $1 + 3 + 5 + 7 = 16 = 4 \times 4$
Can you write the next two steps of this pattern?
7. Find the value by using suitable properties: $370 \times 1587 - 37 \times 10 \times 587$. [Ans : 370000]
8. Find the sum using suitable properties: $678 + 1319 + 322 + 5681$. [Ans : 8000]
9. Find the product of the predecessor and successor of the smallest 4 digit number. [Ans : 999999]
10. Find the number of whole numbers between the smallest and the greatest numbers of 2 digits. [Ans: 88]