

Properties of Whole Numbers

1. Fill in the blanks.

- a. Division by _____ is not defined.
- b. _____ is the identity for multiplication.
- c. Whole numbers are closed under _____ and _____ operation.
- d. If _____ is added to a number, the sum will remain the same.
- e. The product of 1 and the whole number is always _____.
- f. If 0 is subtracted from any whole number, then the result is the _____.
- g. Subtraction of whole numbers is not _____.
- h. Addition and multiplication are _____ for whole numbers.
- i. Any number when _____ by zero becomes zero.

2. Fill in the blanks.

- a. $545 \times \underline{\hspace{2cm}} = 0$
- b. $45234 + 0 = \underline{\hspace{2cm}}$
- c. $9 + 8211 = \underline{\hspace{2cm}} + 9$
- d. $958 \times \underline{\hspace{2cm}} = 9558$
- e. $440 \times 1 = \underline{\hspace{2cm}}$
- f. $5500 + \underline{\hspace{2cm}} = 5500$
- g. $890 - 890 = \underline{\hspace{2cm}}$
- h. $900 - \underline{\hspace{2cm}} = 0$
- i. $125 + (413 + 517) = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} 413$
- j. $85 \times (205 + 95) = 85 \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times 95$
- k. $82 \times 99 = 2 \times 100 - 82 \times \underline{\hspace{2cm}}$

3. Determine the sum by suitable arrangement.

a. $637 + 908 + 363$

b. $2062 + 453 + 1238 + 647$

c. $187 + 576 + 313 + 424$

4. Compute the product by applying suitable properties.

a. 719×276

b. 510×98

c. $289 \times 625 \times 16$

d. $625 \times 20 \times 8 \times 50$

5. Do the following calculations using distributive property.

a. $408 \times 6 + 408 \times 4$

b. $6,784 \times 196 - 96 \times 6,784$

c. $36 \times 583 + 17 \times 583 - 48 \times 583 - 5 \times 583$

d. $23,485 \times 79 + 21 \times 23,485$

6. Very short answer type questions.

a. Determine the sum of $537 + 807 + 463 =$

b. Determine the following products by suitable rearrangement.

i. $250 \times 60 \times 50 \times 8$

ii. $8 \times 125 \times 40 \times 25$

c. Find the value of each using properties.

i. $52,785 \times 75 - 52,785 \times 26$

ii. $2,784 + (9,213 \times 0)$

iii. $145 \times 738 - 45 \times 738$

iv. 7842×99

v. $5764 + (340 \div 170)$

7. Find the difference between the largest number of six-digits and the largest number of four-digits.

8. How much is 15738 less than 1000000?

9. There are 70 students in a class out of which 37 play cricket, 12 play hockey and the rest play neither hockey nor cricket. How many students are there who do not play either hockey or cricket?

10. Each student of a school donated ₹35 towards Flood Relief Fund. Find the total amount donated if the strength of the school is 943.

11. Radhika deposited ₹2050 on Monday, withdrew ₹1505 on Wednesday and again deposited ₹405 on Friday in his bank account. How much money does he have now in his bank account?

12. A dealer collected 4,47,47,430 by selling 182 maruti cars. At what price did for he sell each car?

13. What must be added to the least number formed by the digit 0, 1, 3, 5, 7, 9 to get the sum as the greatest number formed by the digits 0, 2, 4, 6, 8, 9?

14. Find the number when which divided by 67 gives a quotient 132 and remainder 55.

15. How much is the monthly rent if annual rent is 24,000?

16. A wholesale dealer bought 30 TV sets and 30 washing machines. If the cost of TV set is ₹11245 and cost of washing machine is ₹15,855. Find how much money does he spend?

17. A car moves at a uniform speed of 85 km/h. How much distance will it cover in 96 hours?

18. A vendor supplies 62 litres of milk at the cost of ₹48 and 38 litres of milk at the cost of ₹52, how much money is due to the vendor per day?
