6th – Whole Numbers II

Additive Identity: Zero is called the additive identity of a whole number because it maintains the identity of the number during the operation of addition. For ex:- 7+0=0+7=7 or a+0=0+a=a.

The distributive property states that multiplying a sum by a number gives the same result as multiplying each addend by the number and then adding the products together.

$4 \times (2 + 3) = 4 \times 2 + 4 \times 3$

Q1: Solve the following as fast as you can use the properties of addition and multiplication.

(a) 365+94+35 (b) 896+423+104 (c) 379×25×4 (d) 89×125×8

Q2: Show that

(a) (693+432)+412=693+(432+412) c) (63×5)×20=63×(5×20)

(b) (85×30)×4=85×(30×4)

Q3: Find the following products:

(a) 4×2518×25 (b) 5×4231×60 (c) 50×8×4×250 (d) 625×1234×8

Q4: Solve the following using the associative property.

a) 367+243+57 b) 819+217+87 c) 47+313+53 d) 918+712+82

Q5: Name the property.

a) 19+63=63+19 b) 16+95=95+16 c) (20+3)+16=20+(3+16)

d) 37+(9+7)=(37+9)+7

Q6: Solve the following as fast as you can using the properties of addition and multiplication.

a) 365+94+35 b) 896+432+104 c) 379X25X4 d) 89X125X8

Q7: Division by zero:

a) 2 ÷0 b) 7÷0 c) 100 ÷ 0 d) 0 ÷ 155 e) 123 ÷ 0

Q8: Solve using the distributive property:

(a) 8 × 107 (b) 18 × 95 (c) 24 ×102

(d) 96 × 73 - 94 ×73 (e) 697 × 8 - 697 × 2 (f) 23 X 9 + 23 X 1

Q9: Solve the following:

1. 69 + 18 +32 (using associative property)
2. 76 X 11 - 65 X 11 (using distributive property)

Q10: Mark True or False:

1. (100 + 10) + 5 = 100 + (10 + 5) _____
2. 20 X 30 = 30 X 20 _____
3. 480 + 0 = 0 + 480 _____
4. 7 (6 - 3) = 7 X 6 - 7 X 3 _____

Q11: Multiply the following:

a) 163 X 97 b) 203 X 99 c) 166 X 102 d) 155 X 101 e) 99 X 166

Q12: Solve using distributive property:

a) 566 X 43 + 566 X 55 b) 1562 X 62 + 1562 X 38

c)85 X 15 + 16 X 15 d) 21 X 77 - 77 X 11

e)750 X 17 + 750 X 38 f) 650 X 23 + 650 X 17 + 650 X 11

g)688 X 10 X 437 - 6880 X 337 h) 95 X 13 + 13 X 13

i)12 X 35 j) 126 X 55 + 126 X 44

k) 81265 X 166 - 81265 X 66 l) 3845 X 5 X 782 + 769 X 25 X 218

<u>Question using distributive property</u>

1. In a bouquet, there are 7 roses 8 gladioli. In 9 bouquets, how many flowers are there?

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2. In a class there are 23 boys and 18 girls. How many students are there in six such classes?
3. In a plate there were 9 sweets each. 3 of the sweets in each plate were rosogullas and the remaining were burfees. How many burfees are there in 7 plates? Write the mathematical statements.
4. Give an example where distributive property over subtraction in whole numbers will not work. Also give an example where this property will work.
5. There are 7 plates. Six biscuits are placed on each plate. If 4 biscuits are taken away from each plate, how many biscuits are left on the plates? Write the mathematical statements.
6. Raju buys 12 keyboards and 12 printers. If the cost of one keyboard and one printer is Rs 6100 and Rs 7665 respectively. Find the total cost incurred by Raju using distributive property.
7. In a college, the monthly fess of one child is Rs 498. If there are 2988 students in a college, find the total fee collected in one month using distributive property.

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