

Class: 6
Subject: Mathematics
Topic: Whole numbers
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

Q.1 The value of $(89 \times 76 + 89 \times 24)$ is

- a) 890 b) 8900 c) 89000 d) 10420

Solution: b) 8900

[Explanation: $(89 \times 76 + 89 \times 24)$
 $= 89 \times (76 + 24)$
 $= 89 \times 100 = 8900$]

Q.2 On dividing a number by 53, we get 8 as quotient and 5 as remainder. The number is

- a) 419 b) 423 c) 429 d) None of these

Solution: c) 429

[Hint: Dividend = Divisor \times quotient + remainder]

Q.3 The whole number which has no predecessor is

- a) 1 b) 0 c) 2 d) None of these

Solution: b) 0

[Explanation: 0 is the smallest whole number and numbers less than 0 are negative integers.]

Q.4 If 'a' is a whole number such that $a + a = a$, then a =?

- a) 1 b) 2 c) 3 d) None of these

Solution: d) None of these

[Explanation: The whole number is 0 because according to $a + a = a$, $0 + 0 = 0$]

Q.5 How many whole numbers are there between 1018 and 1203?

- a) 185 b) 186 c) 184 d) 187

Solution: c) 184

[Hint: $1203-1018= 185$

But we have to find numbers between above 2 numbers i.e. both the numbers have to be excluded

So $185-1 =184$ numbers lie between 2 number

You can check this by counting whole numbers between 1 and 6

It will be $6-1-1 = 4$ whole numbers.]

Q.6 What least number should be added to 10056 to get a number exactly divisible by 23?

- a) 5 b) 18 c) 13 d) 10

Solution: b) 18

[Hint: 10056 when divided by 23 leaves a remainder 5. To make the dividend exactly divisible by 23, we should add 18 to it because $18+5=23$]

Q.7 $67+33= 33+67$ is an example of

- a) Closure property b) Associative property c) Commutative property
d) Distributive property

Solution: c) Commutative property

[Explanation: Commutative property states that $a + b = b + a$

Here, $a=67$ and $b=33$]

Q.8 If $a \times a=a$ then $a=?$

- a) 0 b) 1 c) 2 d) None of these

Solution: b) 1

[Explanation: We are given that $a \times a=a$

If $a=1$ then $1 \times 1=1$]

Q.9 $1625 \times 1625- 1625 \times 625=?$

- a) 1625000 b) 162500 c) 325000 d) 812500

Solution: a) 1625000

[Explanation: $1625 \times 1625+ 1625 \times 625$

$= 1625 \times (1625-625)$

$= 1625 \times 1000= 1625000$]

Q.10 $(888 + 777 + 555) = (111 \times ?)$

- a) 120 b) 280 c) 20 d) 140

Solution: c) 20

[Explanation: $(888+777+555) = (111 \times ?)$

$$111(8+7+5) / 111 = ?$$

$$? = 20]$$

Q.11 $4 \times 538 \times 25 = ?$

- a) 32280 b) 26900 c) 53800 d) 10760

Solution: c) 53800

[Explanation: $4 \times 538 \times 25$

$$= (4 \times 25) \times 538$$

$$= 100 \times 538 = 53800]$$

Q.12 $587 \times 99 = ?$

- a) 57213 b) 58513 c) 58113 d) 56413

Solution: c) 58113

[Hint: Use distributive property by making 99 as $(100-1)$]

Q.13 Find the difference between smallest number of 7 digits and the largest number of 4 digits.

- a) 9998999 b) 98989 c) 109899 d) 990001

Solution: d) 990001

[Explanation: Smallest 7-digit number = 1000000

Largest 4-digit number = 9999

Difference = $1000000 - 9999 = 990001]$

Q.14 $53501 + (574 + 799) = 574 + (53501 + \underline{\hspace{2cm}})$

- a) 799 b) 53501 c) 0 d) 574

Solution: a) 799

[Hint: Use associative law $(a + b) + c = a + (b + c)$]

Q.15 State the property satisfied in the following statement:

$$968 \times 73 + 968 \times 27 = 968 \times (73 + 27)$$

- a) Commutative property b) Distributive property over addition
c) Associative property d) Distributive property over multiplication

Solution: b) Distributive property over addition

[Explanation: Distributive property over addition states $a \times b + a \times c = a \times (b + c)$
Here, $a = 968$, $b = 73$, $c = 27$]

Q.16 $23756 \times 999 = ?$

- a) 23732244 b) 276066 c) 37256000 d) 2995000

Solution: a) 23732244

[Explanation: 23756×999 can be written as $23756 \times (1000 - 1)$
 $= 2356000 - 23756 = 23732244$]

Q.17 Find the whole number 'n' when $n + 35 = 101$

- a) 55 b) 64 c) 53 d) 66

Solution: d) 66

[Hint: Subtraction is an inverse process of addition

$$101 - 35 = n$$
$$n = 66$$

Q.18 Find x in .

9	2	7
4	X	8
5	10	3

- a) 6 b) 8 c) 4 d) 3

Solution: a) 6

[Explanation: Column wise sum = $(9 + 4 + 5) = (2 + x + 10) = (7 + 8 + 3) = 18$
 $2 + x + 10 = 18$
 $x = 18 - 12 = 6$]

Q.19 Which statement defines the closure law?

- a) $(a \times b) = (b \times a)$ b) $a + (b + c) = (a + b) + c$ c) $(a \times b)$ is a whole number

d) $a \times (b - c) = (a \times b) - (a \times c)$

Solution: c) $(a \times b)$ is a whole number

[Hint: fact]

Q.20 $13 \times 100 \times \quad = 1300000$

- a) 1000 b) 100 c) 10 d) 10000

Solution: a) 1000

[Explanation: $13 \times 100 \times \underline{\quad a \quad} = 1300000$
 $a = 1300000 / (13 \times 100) = 1000$]

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