

date- 11/04/19

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Ch-2

Whole Number

Ex-201

Ques- a) Write the smallest natural Number?

Ans- 1 is the smallest natural Number.

b) Write the smallest whole Number?

Ans- 0 is the smallest whole Number.

c) In every whole number a natural number?

Ans- NO

Ques a) Write the successor of the following whole number:

(i) 2567899

Ans- 2567900

(ii) 5236781

Ans- 5236782

(iii) 10030000

Ans- 10030001

b) Write the predecessor of the following whole number:

(i) 76489000

Ans- 76488999

(ii) 3783132

Ans- 3783131



(iii) 4001091
Ans - 4001090

Ques - Select the right answers:

a - The predecessor of 4500 is

- (i) 4500
- (ii) 4499 ✓
- (iii) 4501
- (iv) 4502

b - The successor of 6560 is

- (i) 6569
- (ii) 6561 ✓
- (iii) 6459

c - The predecessor of 8560 is

- (i) 8559 ✓
- (ii) 8561
- (iii) 8569

d - The successor of 2390 is

- (i) 2399
- (ii) 2389
- (iii) 2391 ✓

Ques - Write the three whole numbers immediately preceding and three whole numbers immediately succeeding:

a - 5489 0089

Ans - $54890089 + 1 = 54890090$
 $= 54890090 + 1 = 54890091$

$= 54890091 + 1$
 $= 54890092$

b - 9988000099

Ans - $9988000099 + 1 = 9988000100$
 $= 9988000100 + 1 = 9988000101$
 $= 9988000101 + 1$
 $= 9988000102$

Ques - True / False

a - Every whole number has a successor?

Ans - True

b - Every whole number has a predecessor?

Ans - False

Ques - Write, if possible, the largest whole number.

Ans - Yes

b - How many whole numbers are there?

Ans - Uncountless

Ques - How many whole numbers are there between:

i) 42 and 57?

Ans - $57 - 42 = 15$
 $15 - 1 = 14$ numbers are there.
15

iii) 342 and 352

Ans- 352

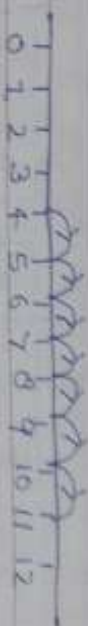
$\frac{10}{-1} = 9$ numbers are there

$\frac{10}{9}$

c- $4+1$

Ans- $4+1$

$= 11$

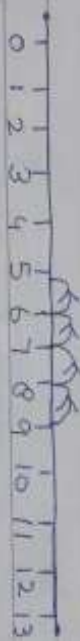


Ans- Represent the following whole numbers on a number line:

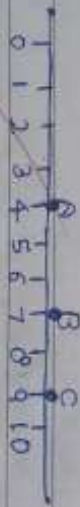
d- $9-4$

Ans- $9-4$

$= 5$



a- $4, 7, 9$



e- 3×4

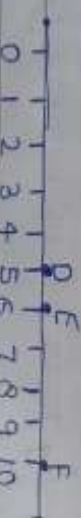
Ans- 3×4

$= 12$



$A = 4, B = 7, C = 9$

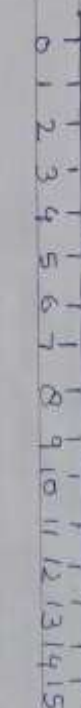
b- $5, 6, 10$



f- 5×3

Ans- 5×3

$= 15$

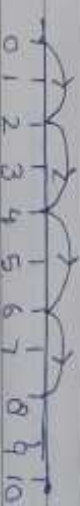


$D = 5, E = 6, F = 10$

g- 2×4

Ans- 2×4

$= 8$

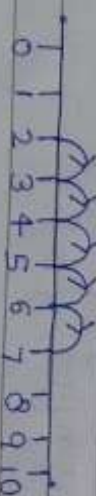


Ques- Perform the following operations on a number line:

a- $2+5$

Ans- $2+5$

$= 7$



b- $8-3$

Ans- $8-3$

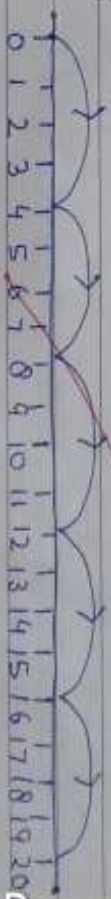
$= 5$



h- 4×5

Ans- 4×5

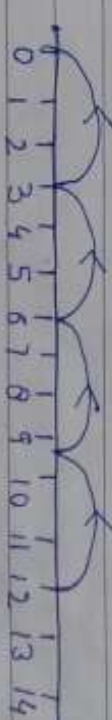
$= 20$



i- $12 \div 3$

Ans- $12 \div 3$

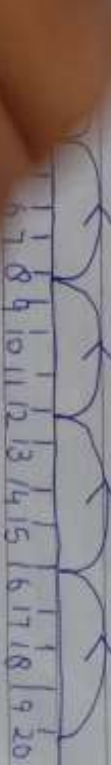
$= 4$



j- $20 \div 4$

Ans- $20 \div 4$

$= 5$



b. $16 \div 4$
 $16 \div 4 = 4$

c. $18 \div 3$
 $18 \div 3 = 6$

Correct Answer

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Ch-2
 whole Number
 Ex-2.2
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Ques: Find the sum by suitable rearrangement and pairing of terms:

a. $453 + 345 + 647$
 Ans: $453 + 647 + 345$

$\Rightarrow 1100 + 345$
 $\Rightarrow 1445$

b. $934 + 545 + 866$
 Ans: $934 + 866 + 545$

$\Rightarrow 1800 + 545$
 $\Rightarrow 2345$

c. $832 + 672 + 568$
 Ans: $832 + 568 + 672$

$\Rightarrow 1400 + 672$
 $\Rightarrow 2072$

d. $541 + 389 + 959$
 Ans: $541 + 959 + 389$

$\Rightarrow 1500 + 389$
 $\Rightarrow 1889$



e) $231 + 569 + 169 + 287$
 Ans: $(231 + 169) + (569 + 287)$

$\Rightarrow 400 + 830$
 $\Rightarrow 1230$

f) $586 + 968 + 832 + 114$
 Ans: $(586 + 114) + (968 + 832)$

$\Rightarrow 700 + 1800$
 $\Rightarrow 2500$

Ques- Find the product of each of the following by suitable rearrangement:

a- $2 \times 8 \times 50 \times 125$
 Ans: $\Rightarrow (2 \times 50) \times (8 \times 125)$

$\Rightarrow 100 \times 1000$
 $\Rightarrow 1,00,000$

b- $25 \times 263 \times 8$
 Ans: $(25 \times 8) \times 263$

$\Rightarrow 200 \times 263$
 $\Rightarrow 52600$

c) $8 \times 625 \times 43$
 Ans: $(8 \times 625) \times 43$

$\Rightarrow 5000 \times 43$
 $\Rightarrow 2,15,000$

Ques- State True or False:

a- $543 \div 234 = 234 \div 534$
 Ans- False

b-

Sorry

Ques- Evaluate using properties of whole numbers

a) $(854 \times 73) + (854 \times 27)$
 Ans: $854 \times (73 + 27)$

$= 854 \times 100$
 $= 85400$

b) $(754 \times 345) - (754 \times 245)$
 Ans: $754 \times (345 - 245)$

$= 754 \times 100$
 $= 75400$

c) $(3675 \times 54) + (3675 \times 46)$
 Ans: $3675 \times (54 + 46)$

$= 3675 \times 100$
 $= 367500$

d) $(812 \times 406) - (812 \times 306)$
 Ans: $812 \times (406 - 306)$

$= 812 \times 100$
 $= 81200$



e) $5234 + (2360 \div 10)$
 Ans = $5234 + 236$
 $= 5470$

f) $C2340 \div 10) \div C23400 \div 100)$
 Ans = $234 \div 234$
 $= 1$

g) $6923 + C4770 \div 10)$
 Ans = $6923 + 477$
 $= 7300$

h) $C3750 \div 10) \div C37500 \div 100)$
 Ans = $375 \div 375$
 $= 1$

i) $0 \div 5634$
 Ans = 0

j) $099 \div 1$
 Ans = 099

k) $0 \div 4079$
 Ans = 0

l) $671 \div 1$
 Ans = 671

Solve Word Problem

Ques- A shopkeeper - - - - - shopkeeper
 Ans- Cost of ~~1~~ 1 milk = ₹ 18
 Shopkeeper sold milk = 222

If earned money $\Rightarrow$ ₹ 18×22
 $\Rightarrow$ ₹ 896

Ques- Answer - - - - - 108705?

Ans- Cost of 1 glass of juice $\Rightarrow$ ₹ 35
 Cost of 4 glass of juice $\Rightarrow$ ₹ 35×4
 $\Rightarrow$ ₹ 140

Cost of 9 pizzas $\Rightarrow$ ₹ 250
 Cost of 4 pizzas $\Rightarrow$ ₹ 250×4
 $\Rightarrow$ ₹ 1000

Total cost $\Rightarrow$ ₹ $1000 + ₹ 140$
 $\Rightarrow$ ₹ 1140

Ques- Punit - - - - - cement?
 Ans- Punit bought bags of cement $\Rightarrow$ 385
 No. of unused bags $\Rightarrow$ 155
 No. of used bags $\Rightarrow$ $385 - 155 \Rightarrow 230$

Cost of each bags $\Rightarrow$ ₹ 315
 Total cost of used bags $\Rightarrow$ 315×230
 $\Rightarrow$ ₹ 72450



Ques II- For the ----- comment? ticket?
 Ans- No. of student in each class $\Rightarrow$ 25
 No. of class $\Rightarrow$ 50

Total student $\Rightarrow$ 50×25
 $\Rightarrow$ 1250

Cost of 1 ticket $\Rightarrow$ ₹ 20
 Total collected money $\Rightarrow$ ₹ 20×1250
 $\Rightarrow$ 25000

Ques III- / /

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Ex-2:3
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Q-1- Evaluate:

a- $31 - 12 + 6$

Ans- $31 - 12 + 6$

$19 + 6$

25

b- $62 + 11 - 50 - 9$

Ans- $62 + 11 - 50 - 9$

$73 - 50 - 9$

23 - 9

c- $45 - 11 - 12 + 22$

Ans- $45 - 11 - 12 + 22$

$34 - 12 + 22$

$22 + 22$

44

d- $21 + 7 + 7 - 11 - 14$

Ans- $21 + 7 + 7 - 11 - 14$

$20 + 7 - 11 - 14$

$35 - 11 - 14$

~~35~~ 24 - 14

10

e- $56 - 12 - 13 + 8 - 7$

Ans- $56 - 12 - 13 + 8 - 7$

~~34~~ 44 - 13 + 8 - 7

$31 + 8 - 7$

29 - 7

32

f- $37 - 23 - 4$

Ans- $37 - 23 - 4$

14 - 4

10

g- $59 - 32 + 12 - 11$

Ans- $59 - 32 + 12 - 11$

$27 + 12 - 11$

$39 - 11$

28

h- $38 + 6 - 18 - 12 + 5$

Ans- $38 + 6 - 18 - 12 + 5$

$39 - 18 - 12 + 5$

$21 - 12 + 5$

9 + 9 + 5

24 14

i- $41 - 20 + 10 + 8 - 11$
 Ans- $41 - 20 + 10 + 8 - 11$

j- $35 + 10 - 5 - 6 - 9$
 Ans- $45 - 5 - 6 - 4$

$21 + 16 + 8 - 11$
 $370 + 0 - 11$

$40 - 6 - 4$
 $34 - 4$

$4003 - 11$
 30

Q-2- Evaluate the following :-

a- $90 \div 3 \times 5$

Ans- $90 \div 3 \times 5$

b- $140 \div 7 \times 3 \div 5$
 Ans- $140 \div 7 \times 3 \div 5$

30×5
 150

$20 \times 3 \div 5$
 $60 \div 5$

12

c- $16 \times 3 \times 2 \div 12$

Ans- $16 \times 3 \times 2 \div 12$

d- $18 \times 2 \div 6 \times 4 \div 3$

Ans- $18 \times 2 \div 6 \times 4 \div 3$

$48 \times 2 \div 12$
 $96 \div 12$

$36 \div 6 \times 4 \div 3$
 $6 \times 4 \div 3$

8

$24 \div 3$
 8

e- $198 \div 3 \div 2 \div 11 \times 4$

Ans- $198 \div 3 \div 2 \div 11 \times 4$

f- $40 \times 3 \div 6$

Ans- $40 \times 3 \div 6$

$66 \div 2 \div 11 \times 4$
 $33 \div 11 \times 4$

$120 \div 6$
 20

3×4

12

g- $40 \times 2 \div 4 \div 6$
 Ans- $40 \times 2 \div 4 \div 6$

h- $900 \div 7 \times 2 \times 3$
 Ans- $900 \div 7 \times 2 \times 3$

$96 \div 4 \div 6$
 $24 + 2 \div 6$

$14 \times 2 \times 3$
 28×3

84

84

i- $13 \times 4 \times 3 \times 2 \div 8$

Ans- $13 \times 4 \times 3 \times 2 \div 8$

j- $144 \div 4 \div 8 \times 2 \times 3$

Ans- $144 \div 4 \div 8 \times 2 \times 3$

$52 \times 3 \times 2 \div 8$
 $156 \times 2 \div 8$

$4 \times 2 \times 3$
 8×3

$312 \div 8$

24

39

Q-3- Evaluate the following arithmetic expressions.

a- $45 + 22 \div 2 - 7 \times 8$

Ans- $45 + 22 \div 2 - 7 \times 8$

b- $12 \times 9 + 2 - 125 \div 5$

Ans- $12 \times 9 + 2 - 125 \div 5$

$45 + 11 - 7 \times 8$
 $45 + 11 - 56$

$12 \times 9 + 2 - 25$
 $108 + 2 - 25$

0

$110 - 25$
 85

c- $96 \div 6 + 7 \times 3 - 18$

Ans- $96 \div 6 + 7 \times 3 - 18$

d- $2 + 2 + 2 - 2 + 2 \times 12$

Ans- $2 + 2 + 2 - 2 + 2 \times 12$

$16 + 7 \times 3 - 18$
 $16 + 21 - 18$

$2 + 2 + 2 - 2 + 2$
 $4 + 2 = 2 + 0 + 2$

$37 - 18$

$8 - 2 + 0 + 2$
 $6 - 2 + 2$

19

$6 - 2 + 2$
 $6 - 1$

e- $2 + 2 + 2 - 2 + 2 \times 0 + 2$

Ans- $2 + 2 + 2 - 2 + 0 + 2$

$6 - 2 + 2$

$0 - 2$

i- $19-4+52 \div 4 \times 3$

Ans- $19-4+13 \times 3$

$19-4+39$

$58 \quad 19-48$

64

j- $12+40 \div 12 \times 7-30$

Ans- $12+40 \div 12 \times 7-30$

$12+4 \times 7-30$

$12+28-30$

$40-30$

10

k- $75-17 \div 11+9 \times 3$

Ans- $75-17 \div 11+9 \times 3$

$75-7+9 \times 3$

$75-7+27$

$75+30-7$

$4102-7$

95

$8-3+8+3-3 \times 1+3 \times 0$

$9-3+3$

$12-3$

9

8.4- solve using brackets to simplify the calculations:

a- 98×52

$(100-1) \times (50+2)$

$(100 \times 50) + (100 \times 2) - (1 \times 50) - (1 \times 2)$

$5000 + 200 - 50 - 2$

$5200 - 50 - 2$

$5150 - 2$

5148

b- 201×79

$(200+1) \times (80-1)$

$(200 \times 80) - (200 \times 1) + (1 \times 80) - (1 \times 1)$

$16000 - 200 + 80 - 1$

$16000 + 80 - 200 - 1$

$16080 - 201$

15879

c) 101×49

Ans- $(100+1)(50-1)$

$= (100 \times 50) - (100 \times 1) + (1 \times 50) - (1 \times 1)$

$5000 - 100 + 50 - 1$

$5000 + 50 - 100 - 1$

$5050 - 101$

4949

d) 502×58

$(500+2)(60-2)$

$= (500 \times 60) - (500 \times 2) + (2 \times 60) - (2 \times 2)$

$= 30,000 - 1000 + 120 - 4$

$= 30,000 + 120 - 1000 - 4$

$= 29,116$

~~Answer~~
19/11/19

Date: 10/01/2019

Ch-2

Whole Number

Exercise-23

Ques 5- Evaluate using BODMAS:

a- $(15-8) \times (12+1)$

7×13

$\Rightarrow 91$

b- $(9+4-5) \div (16-10 \times 2)$

$Ans - 8 \div 4$

$= 2$

c- $12 \times (8-3)$

12×5

$= 60$

d- $(11-3) \times 2 \div 4 \times 3$

$Ans = 8 \times 2 \div 4 \times 3$

$= 8 \times 2 \times 3$

$= 16 \times 3$

$= 48$

e- $(5+6-2) \div (8-4-1)$

$9 \div 3$

$= 3$

f- $18 \div (6-4)$

$Ans = 18 \div 2$

$= 9$

g- $(13-8) \times (15-12)$

5×3

$= 15$

h- $12 \div (7-3) \div 3 \times 9$

$Ans - 12 \div 4 \div 3 \times 9$

$= 3 \div 3 \times 9$

$= 1 \times 9$

$= 9$

i- $(10-8) \times 6 \div 3 \times 4$

$2 \times 6 \div 3 \times 4$

$= 2 \times 2 \times 4$

$= 4 \times 4$

$= 16$

j- $21 \times (3-1) \div 3 \div 7$

$Ans - 21 \times 2 \div 3 \div 7$

$= 42 \div 3 \div 7$

$= 14 \div 7$

$= 2$

Q.6 a- Evaluate $18+45 \div 3+2$. Insert a bracket in the expression to make it equal to:

(i) 23

(ii) 27

Ans-

$18+45 \div 3+2$

$\Rightarrow 18+15+2$

$\Rightarrow 33+2$

$\Rightarrow 35$

(i)

$(18+45) \div 3+2$

$\Rightarrow 63 \div 3+2$

$\Rightarrow 21+2$

$\Rightarrow 23$

(ii)

$18+45 \div (3+2)$

$\Rightarrow 18+45 \div 5$

$\Rightarrow 18+9$

$\Rightarrow 27$

b)

Evaluate $6 \times 4 + 18 \div 6 - 3$. Insert a bracket in the expressions in such a way that the expressions become equal to:

(i) 80

(ii) 19

Ans-

$6 \times 4 + 18 \div 6 - 3$

$\Rightarrow 6 \times 4 + 3 - 3$

$\Rightarrow 24 + 3 - 3$

$\Rightarrow 27 - 3$

$\Rightarrow 24$

(i)

$6 \times 4 + 18 \div (6-3)$

(ii)

$6 \times 4 + 18 \div 3$

$\Rightarrow$

$6 \times 4 + 18 \div 3$

$$\begin{array}{r} 6x + 4 + 6 \\ 24 + 6 \\ 30 \end{array}$$

$$\begin{aligned} \text{iii)} \quad & 6 \times 6 + 18 \div 6 - 3 \\ \rightarrow & 6 \times 22 \div 6 - 3 \end{aligned}$$

$$\Rightarrow 136 \div 6 = 3$$

22-3

29

B-7- Solve:

$$2. \quad \left[\begin{array}{c} 7+2 \\ 7+2 \end{array} \left\{ \begin{array}{c} (7-2+4) \div 3 \\ 9 \div 3 \end{array} \right\} \right] - 3$$

$$\begin{array}{r} 7+2 \times 3 \\ 13-3 \end{array} \quad \begin{array}{r} -3 \\ -3 \end{array}$$

10

8- $\left\{ \begin{array}{l} 4 \times (5-2) \\ 4 \times 3 \\ 12 \div 3 \end{array} \right\} \div 3$ $\times 2$

4 X 2

$$\begin{aligned} \text{Ans: } & \left[12 + \{ (12 - 9) \times 2 \} \div 4 \right] \\ &= \left[12 + \{ 0 \times 2 \} \div 4 \right] \\ &= \left[12 + 16 \div 4 \right] \\ &= \left[12 + 4 \right] \\ &= 16 \end{aligned}$$

$$\text{Ans} - \{1 + \{8 - (4 - 2) \times 2 \times 2\}\}$$

$$= \begin{bmatrix} 1 & 8-4 \\ 7 & 4 \end{bmatrix}$$

$$\text{Area} = \frac{1}{2} \left[\{ (15-3) \div 2 \} + 8 \right] \times 2$$

$$\Rightarrow [6 + 8] \times 2$$

$$\begin{array}{r} 14 \times 2 \\ \hline 28 \end{array}$$

$$b - \left[3 \times \left\{ 2 \div (4 - 2) \right\} \right] - 6$$

$$\Rightarrow \boxed{3 \times 4 - 6}$$

$$\begin{array}{r} 7 \\ 12-6 \\ \hline 6 \end{array}$$

$$\frac{24}{3+5} \div 2 + 6$$

$$\underline{9 + 6}$$

104

$$\begin{aligned} \text{Ans-} \quad h_- &= 5 + \left[\left\{ 8 \times (10 - 7) \right\} \div 4 \right] \\ &= 5 + \left[\left\{ 8 \times 11 \right\} \div 4 \right] \\ &\Rightarrow 5 + \left[88 \div 4 \right] \\ &\Rightarrow 5 + 22 \\ &\Rightarrow 27 \end{aligned}$$

Ans

$$23 - [4 \times 9 \div 5] \quad \text{sorry}$$

$$23 - 20$$

$$3$$

$$j - [3 \{ 4 - 9 + 7 (30 \div 6 + 8) - 2 \times 4 \}] - 30$$

$$\text{Ans} = [3 \{ 4 - 9 + 7 (5 + 8) - 2 \times 4 \}] - 30$$

$$[3 \{ 4 - 9 + 7 \times 13 - 2 \times 4 \}] - 30$$

$$\Rightarrow [3 \{ 4 - 9 + 91 - 8 \}] - 30$$

$$\Rightarrow [3 \{ 84 - 17 \}] - 30$$

$$\Rightarrow [3 \{ 67 \}] - 30$$

$$\Rightarrow [3 \times 67] - 30$$

$$\Rightarrow [201] - 30$$

$$\Rightarrow 201 - 30$$

$$\Rightarrow 171$$

$$j - 23 - [4 \{ 9 \div 3 + 4 (27 \div 9 + 5) - 5 \times 6 \}]$$

$$\text{Ans} = 23 - [4 \{ 9 \div 3 + 4 (3 + 5) - 5 \times 6 \}]$$

$$= 23 - [4 \{ 9 \div 3 + 4 \times 8 - 5 \times 6 \}]$$

$$= 23 - [4 \{ 3 + 32 - 30 \}]$$

$$= 23 - [4 \{ 3 + 32 - 30 \}]$$

$$= 23 - [4 \{ 3 + 32 - 30 \}]$$

$$= 23 - [4 \{ 35 - 30 \}]$$

$$= 23 - [4 \times 5]$$

$$= 23 - 20$$

$$3$$

13/7

