Solution

CLASS 6 MATHEMATICS WORKSHEET - WHOLE NUMBERS

Class 06 - Mathematics

Section A

1. **(c)** Natural numbers
   Explanation: The counting numbers {1, 2, 3, ...} are commonly called natural numbers.

2. **(c)** ₹ 89875
   Explanation: Money left in Rahul's account = money deposited - money withdrawn
   = ₹ 125000 - ₹ 35125 = ₹ 89875

3. **(c)** a natural number
   Explanation: The sum of two whole numbers is always a natural number. As whole numbers are natural numbers only or zero.

4. **(b)** a natural number
   Explanation: The sum of a natural number with a whole number is always. The all-natural number and zero make a collection of whole numbers. So the sum of natural number with the whole number is the same as the sum of two natural numbers or sum of natural number with zero. In both cases, you will get the natural number as a sum.

5. **(a)** 0
   Explanation: 0

6. **(a)** 400000
   Explanation: Place the values of 2's in 428721 are 20000 and 20
   ∴ The required product = 20000 $\times$ 20 = 400000

7. **(c)** 10
   Explanation: The predecessor of two-digit number has a single digit, then we should choose the smallest two-digit number i.e. 10 and 10 -1 = 9 which is a one-digit number and predecessor of 10.

8. **(d)** 964320
   Explanation: The largest number formed by digits 2, 4, 0, 3, 6, 9 is 964320. To make the largest number you should put the largest digit at left most and put them descending order.

9. **(c)** 1997
   Explanation: The successor of 1996 is 1997.
   As 1996 + 1 =1997

10. **(b)** 8
    Explanation: Since the odd natural numbers other than 1 are 3, 5, 7, 9 and so on.
    Now, the predecessor and successor of 3 are 2 and 4 respectively, and their product is 2 $\times$ 4 = 8
    Similarly, the predecessor and successor of 5 are 4 and 6 respectively and their product is 4 $\times$ 6 = 24 and so on.
    8 = 2×× 2 ×× 2
    24 = 2 ×× 2 ×× 2 ×× 3
    So, H.C.F. (8 , 24) = 2 ×× 2 ×× 2 = 8
    greatest number which always divides the product of the predecessor and successor of an odd natural number other than ' 1 ' is **= 8**

Section B

11. 1. 0

12. 1. Even

13. 1. 106160

14. **(b)** False
Explanation: False

15. **(a)** True
Explanation: True

16. **(b)** False
Explanation: False

17. **(a)** Both A and R are true and R is the correct explanation of A.
Explanation: $4 \times 5 = 4 + 4 + 4 + 4 + 4 = 20$.

18. **(d)** A is false but R is true.
Explanation: Successor of 99 = 99 + 1 = 100 is a three digit number

19. **(a)** Both A and R are true and R is the correct explanation of A.
Explanation: 5 + 4 = 5 + 1 + 1 + 1 + 1
= 5 + 4 jumps.

20. **(a)** Both A and R are true and R is the correct explanation of A.
Explanation: As 135 < 150, so 135 will be to the left of 150 on number line

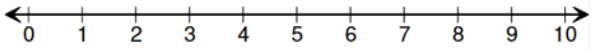
Section C

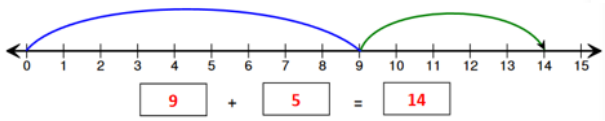
21. since the successor of 32 is 33, the predecessor of 49 is 48, the predecessor of the predecessor 56 is 54 and successor of the successor of 67 is 69
∴ The required sum =33 + 48 + 54 + 69 = 204.

22. (a) The prodecessor of 94 is 93.
(b) The prodecessor of 10000 is 9,999 .
(c) The prodecessor of 208090 is 2,08,089.

23. The whole numbers between 381 and 401 are:
382, 383, 384, ……., 400.
The numbers between 381 and 401 = 400 – 381 = 19

24. A mobile number consists of 10 digits. If the first four digits of the number are 9, 9, 8, and 7 and the last three digits of the number are 3, 5, and 5.
Thus, for the greatest possible number, the remaining distinct digits are 6, 4, and 2.

25. 

26. 

27. i. The next three consecutive whole numbers of 39359 are: 39360, 39361, 39362
ii. The next three consecutive whole numbers of 8632157 are: 8632158, 8632159, 8632160

28. (a) The successor of 2440701 is 24,40,702.
(b) The successor of 100199 is 1,00,200.
(c) The successor of 1099999 is 11,00,000.

29. 1. - b
2. - c
3. - d
4. - a

30. a. - b
b. - c
c. - d

d. - a

Section D

31. Largest 4 digit number is 9999

After doing 9999 ÷ 88 we get remainder 55

Hence largest 4 digit number exactly divisible by 88 = 9999 - 55 = 9944

32. i. 11963 rounded off to the nearest tens = 11960

9369 rounded off to the nearest tens = 9370

Estimated difference = 11960-9370 = 2590

ii. 76877 rounded off to the nearest tens = 76880

7783 rounded off to the nearest tens = 7780

Estimated difference = 76880-7780 = 69100

iii. 10732 rounded off to the nearest tens = 10730

4354 rounded off to the nearest tens = 4350

Estimated difference = 10730-4350 = 6380

iv. 78203 rounded off to the nearest tens = 78200

16407 rounded off to the nearest tens = 16410

Estimated difference = 78200-16410 = 61790

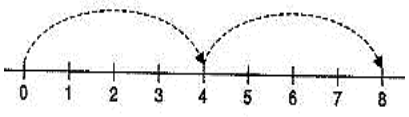
33. We divide 10000 by 237 and the remainder is 46.

∴ The required number = 237 – 46 = 191

10000 + 191 = 10191 is the smallest 5-digit number which is exactly divisibly by 237.

34. 4 × 2

Starting from 0 move 4 units at a time to the right. Make 2 such moves. We reach 8. So 4 × 2 = 8.



35. (a) The whole number 503 is on the left of the whole number 530 on the number line. So 503 < 530.

(b) The whole number 307 is on the left of the whole number 370 on the number line. So, 307 < 370.

(c) The whole number 56789 is on the left of the whole number 98765 on the number line. So, 56789 < 98765.

Section E

36. a. 10000 - 1=9999

b. 308090 -1=308089

c. 9654321 -1= 9654320

37. i. 874 rounded off to the nearest hundreds = 900, 478 rounded off to the nearest hundreds = 500

Estimated sum = 900 + 500 = 1400

ii. 793 rounded off to the nearest hundreds = 800, 397 rounded off to the nearest hundreds = 400

Estimated sum = 800 + 400 = 1200

iii. 11244 rounded off to the nearest hundreds = 11200, 3507 rounded off to the nearest hundreds = 3500

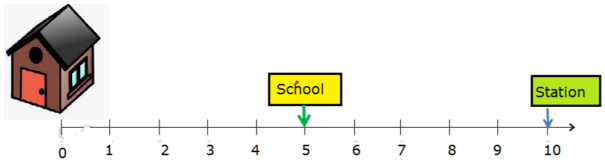
Estimated sum = 11200 + 3500 = 14700

iv. 17677 rounded off to the nearest hundreds = 17700, 13589 rounded off to the nearest hundreds = 13600

Estimated sum = 17700 + 13600 = 31300

Section F

38. **Read the text carefully and answer the questions:**



As per shown in the above picture Naresh's House is at 0 position in number line ,His school is at position 5 and Station is at position 10.

(i) **(a)** 5

Explanation: 5-0=5

(ii) **(b)** 5

Explanation: 10-5=5

(iii) **(d)** 6

Explanation: Successor of 5=5+1=6

(iv) 1. Successor

(v) **(b)** False

Explanation: 0 is a whole number but not a natural number

39. **Read the text carefully and answer the questions:**

Reeta has represented the whole numbers 0 to 20 on the number line as shown in the above figure.

(i) **(c)** 7

Explanation: 15-8=7

(ii) **(b)** 7

Explanation: 7

(iii) **(a)** 13

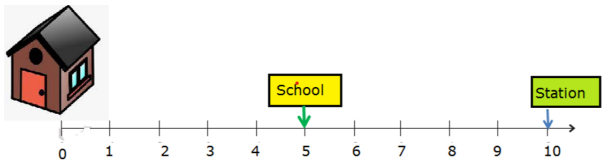
Explanation: 13

(iv) 1. Whole numbers

(v) **(a)** True

Explanation: True

40. **Read the text carefully and answer the questions:**



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