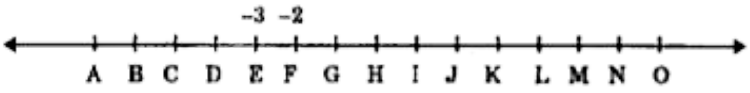
MATHS

BOOKS - NAND LAL PUBLICATION

INTEGERS

Try These

1. The number line representing integers is given below



-3 and -2 are marked by E and F repectively .Which itergers are marked by B,D,H,J,M, O?

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2. Arrange 7,5,4, 0 and -4 in ascending order and then mark them on a number line to check your answer .

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3. We have done various patterns with numbers in pur previous class . Can you find a pattern for each of the following ? If yes competer them 7,3,-1,-5,.....,.....,..... Make some more such patterns and ask your friends to complete them .

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4. We have done various patterns with numbers in pur previous class . Can you find a pattern for each of the following ? If yes competer them -2,-4,-6,-8,.....,.....,..... Make some more such patterns and ask your friends to complete them .

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5. We have done various patterns with numbers in pur previous class . Can you find a pattern for each of the following ? If yes competer them

15 ,10,5,0,.....,.....,..... Make some more such patterns and ask your friends to complete them .

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6. We have done various patterns with numbers in pur previous class . Can you find a pattern for each of the following ? If yes competer them

`-11,-8,-5,-2,.....,.....,..... Make some more such patterns and ask your friends to complete them .

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7. Write a pair of integers whose sum gives

a nagative integer

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8. Write a pair of integers whose sum gives

zero

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9. Write a pair of integers whose sum gives

An integer smaller than both the intergers

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10. Write a pair of integers whose sum gives

An integer

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11. Write a pair of integers whose sum gives positive integer

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12. Write the pair of integers whose difference gives

a negative interger

Watch Video Solution

13. Write a pair of integers whose sum gives

zero

Watch Video Solution

14. Write a pair of integers whose sum gives

An integer smaller than both the intergers

Watch Video Solution

15. Write the pair of integers whose difference gives

an integer smaller than both the intergers .

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16. Write the pair of integers whose difference gives

an integer greater than both the intergers.

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17. Find $4 \times (-8)$ Using the number line .

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18. Find $8 \times (-2)$ Using the number line .

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19. Find $3 \times (-7)$ Using the number line .

Watch Video Solution

20. Find $10 \times (-1)$ Using the number line .

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21. Find in a similar way

$4 \times (-8) = \ldots\ldots = \ldots\ldots,$

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22. Find in a similar way

$3 \times (-7) = \ldots\ldots\ = \ldots\ldots$

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23. Find in a similar way

$6 \times (-5) = \ldots\ldots = \ldots\ldots,$

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24. Find in a similar way

$3 \times (-7) = \ldots\ldots\ldots = \ldots\ldots\ldots$

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25. Find $6 \times (-19)$

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26. Find $12 \times (-32)$

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27. Find $7 \times (-22)$

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28. Using the pattern , find $(-4) \times 8, (-3) \times 7, (-6) \times 5$ and $(-2) \times 9$ Check whether $(-4) \times 8 = 4 \times (-8)$

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29. Using the pattern , find $(-4) \times 8, (-3) \times 7, (-6) \times 5$ and $(-2) \times 9$ Check whether $(-3) \times 7 = 3 \times (-7)$

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30. Using the pattern , find $(-4) \times 8, (-3) \times 7, (-6) \times 5$ and $(-2) \times 9$ Check whether

$(-6) \times 5 = 6 \times (-5)$

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31. Using the pattern , find $(-4) \times 8, (-3) \times 7, (-6) \times 5$ and $(-2) \times 9$ Check whether $(-2) \times 9 = 2 \times (-9)$

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32. Find $15 \times (-16)$

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33. Find $21 \times (-32)$

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34. Find $(-42) \times 12$

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35. Find -55×15

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36. Check if $25 \times (-21) = (-25) \times 21$ Write five more such examples .

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37. Check if $(-23) \times 20 = 23 \times (-20)$

Write five more such examples .

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38. Five more such examples are as follows

$20 \times (-15) = (-20) \times 15$

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39. Five more such examples are as follows

$(-9) \times 8 = 9 \times (-8)$

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40. Five more such examples are as follows

$12 \times (-10) = (-12) \times 10$

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41. Five more such examples are as follows

$(-100) \times 79 = 100 \times (-79)$

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42. Five more such examples are as follows

$11 \times (-12) = (-11) \times 12$

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43. Starting from $(-5) \times 4$, find $(-5) \times (-6)$

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44. Starting from $(-6) \times 3$ find $(-6) \times (-7)$

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45. Find : $(-31) \times (-100)$

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46. Find : $(-25) \times (-72)$

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47. Find : $(-83) \times (-28)$

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48. Is $10 \times [(6) + (-2)] = 10 \times 6 + 10 \times (-2)$?

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49. Is

$(-15) \times [(-7) + (-1)] = (-15) \times (-7) + (-15) \times (-1)$?

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50. Is $10 \times [6 - (-2)] = 10 \times 6 - 10 \times (-2)$?

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51. Is

$(-15) \times [(-7) - (-1) = (-15) \times (-7) - (-15) \times (-7) - (-15$

?

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52. Find $(-49) \times 18$ Using distributive property

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53. Find $(-25) \times (-31)$ Using distributive property

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54. Find $70 \times (-19) + (-1) \times 70$ Using distributive property

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55. Find $(-100) \div 5$

Watch Video Solution

56. Find $(-81) \div 9$

Watch Video Solution

57. Find $(-75) \div 5$

Watch Video Solution

58. Find $(-32) \div 2$

Watch Video Solution

Watch Video Solution

59. Find $125 \div (-25)$

Watch Video Solution

60. Find $80 \div (-5)$

Watch Video Solution

61. Find $64 \div (-16)$

Watch Video Solution

62. Find $(-36) \div (-4)$

Watch Video Solution

63. Find

$(-201) \div (-3)$

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64. Find $(-325) \div (-13)$

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Questions

1. Following are some pairs of integers .Observe the following table and complete it .

Statement	Obervation
(i) $17 + 23 = 40$	Result is an integer
(ii) $-10 + 3 = \ldots$	.....
(iii) $(-75) + 18 =$	.....
(iv) $19 + (-25) = -6$	Result is an integer

(v) $27 + (-27) = \ldots.$ .....

(vi) $(-20) + 0 = \ldots\ldots$ .....

(vii) $(-35) + (-10) = \ldots\ldots.$ .....

What do you observe ? Is the sum of two intergers always an integer? Did you find a pair of integers whose sum is not an integer ?

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2. What happens when we subtract an interger from another integer ? Can we say that the difference is also an integer ? Observe the following table and complete it .

Statement	Observation
(i) $7 - 9 = -2$	Result is an interger
(ii) $17 - (-21) = \ldots\ldots$	.....
(iii) $(-8) - (-14) = 6$	Result is an integer.
(iv) $(-21) - (-10) = \ldots\ldots$	..... .
(v) $32 - (-17) = \ldots.$.	.....
(vi) $(-18) - (-18) = \ldots.$	.....
(vii) $(-29) - 0 = \ldots\ldots$	.....

What do you observe ? Is there any pair of integer whose difference is not an integer ? Can we say integers are close under subtraction ?

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3. We know that $3+5=5+3=8$ that is the whole numbers can be added in any order . In other words , addition is commutative for whole numbers

Can we say the same fot integers also ? We have $5+(-6)=(-6)+5$

Are the following equal ?

(i) $(-8)+(-9)$ and $(-9)+(-8)$

(ii) $(-23)+32$ and $32+(-23)$

(iii) $(-45)+0$ and $0+(-45)$

Try this with five other pairs of inegers .Do you find any pairs of intergers for which the sums are different when the order is changed ?

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4. Let us try with five other pairs of integers .

$2 + (-4)$ and $(-4) + 2$

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5. Let us try with five other pairs of intergers .

$(-5) + (-10)$ and $(-10) + (-5)$

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6. Let us try with five other pairs of intergers .

$37 + 16$ and $16 + 37$

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7. Let us try with five other pairs of integers .

$(-12) + 18$ and $18 + (-12)$

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8. Let us try with five other pairs of integers .

$(-100)+(-200)$ and $(-200)+(-100)$

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9. If a , b and c are three integers then

$a+(b+c)=(a+b)+c$

i.e addition is associative for integers Consider -3,1,-7 (-3)+[1+(-7)]=-3+.....=.....

$([(-3)+1]+(-7)=-2+\ldots\ldots\ldots=\ldots\ldots Is(--3)+[1+($

same as $[(-3)+1]+(-7)$? Take 5 more such examples . You will not find nay example for which the sums are different .

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10. Let us take five more such examples to verify Associativity.

$(-1)+[(-2)+(-3)]$ and $[(-1)+(-2)]+(-3)$

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11. Let us take five more such examples to verify Associativity.

$(-5)+[(-15)+10]$ and $[(-5)+(-15)]+10$

Watch Video Solution

12. Let us take five more such examples to verify Associativity.

$[(-8)+(-2)]+11$ and $(-8)+[(-2)+11]$

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13. Let us take five more such examples to verify Associativity.

$[10+20]+(-30)$ and $10+[20+(-30)]$

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14. Let us take five more such examples to verify Associativity.

$[5+7]+9 \text{ and } 5+[7+9]$

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15. When we add zero to any whole number we get the same whole number Zero is called the additive identity for whole numbers .Is it an additive identity again for integers also Observe the following and fill in the blanks

(i) (-8)+0=-8

(ii) 0+(-8)=-8

(iii) (-23) +0=

(iv) 0+(-37)=-37

(v) 0+(-59)=...

(vi) 0+...=-43

(vii) -61 +....=-43

(vii) -61 +...=-61

(viii) ..+0= .....

The above examples shows that zero is an additive identity for integers . you can verify it by a adding zero to any other five integers . In general , for any integer a ,

a+0=0+a=a

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16. Can you find the product $(-3) \times (-2)$?

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17. Can you find the product $(-3) \times (-2)$? Observe the following

$-3 \times 4 = -12$

$-3 \times 3 = -9 = -12-(-3)$

$-3 \times 2 = 6 = -9-(-3)$

$-3 \times 1 = -3 = -6-(-3)$

$-3 \times 0 = 0 = -3-(-3)$

$-3 \times -1 = 0-(-3) = 0+3=3$

$-3 \times -2 = 3-(-3) = 3+3=6$

Do you see any pattern ? Observe how the product changes Based on this observation , complete the following :

$-3 \times -4 =$ .....

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18. Now observe these products and fill in the blanks

$-4 \times 4 = -16$

$-4 \times 3 = -12 = -16 + 4$

$-4 \times 2 = \ldots\ldots = -12 + 4$

$-4 \times 2 =$ .....

$-4 \times 1 =$ .....

$-4 \times 0 =$ .....

$-4 \times (-1) =$ .....

$-4 \times (-2) =$ .....

$-4 \times (-3) =$ .....

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19. What is the product of first five negative negative integers ? So , what will be the product of first six negative integers ?

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20. Observe the following table and complete it .

Statement	Inference
$(-20) \times (-5) = 100$	Product is an integer.
$(-15) \times 17 = -255$	Product is an integer
$(-30) \times 12 = -360$	Product is an integer
$(-15) \times (-23) = 345$	Product is an integer
$(-14) \times (-13) = 182$	Product is an integer
$12 \times (-30) = -360$	Product is an integer

What do you observe ? Can you find a pair of integer whose product not an integer?

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21. We know that multiplicatio is commutative for whole numbers : Can we say multiplication is also commutative for integers ?

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Think Discuss And Write

1. The product $(-9) \times (-5) \times (-6) \times (-3)$ is positive where as the product $(-9) \times (-5) \times 6 \times (-3)$ is negative .Why ?

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2. What will be the sign of the product if we multiply together

8 negative integers and 3 positive intergers ?

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3. What will be the sign of the product if we multiply together

5 negative integers and 4 positive integers ?

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4. What will be the sign of the product if we multiply together

(-1) , twelve times ?

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5. What will be the sign of the product if we multiply together

(-1) , 2 m times , m is a natural number ?

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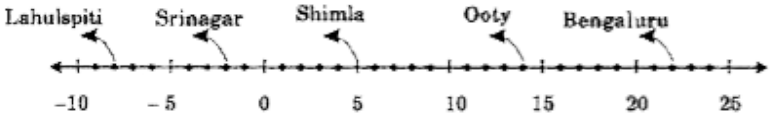
Exercise 1 1

1. Following number line shown the temperature in degree celcius $(^{\circ}C)$

at different places on a particular day



Observe this number line and write the temperature of the places marked on it .

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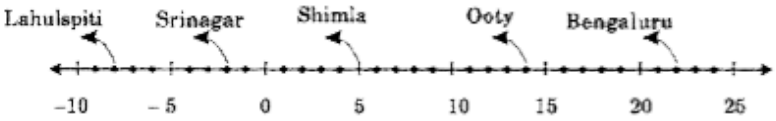
2. Following number line shown the temperature in degree celcius $(^\circ C)$ at different places on a particular day



What is the temperature difference between the hottest and the coldest places among the above ?

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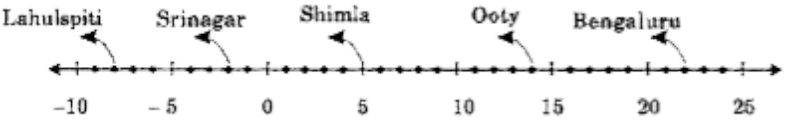
3. Following number line shown the temperature in degree celcius $(^\circ C)$ at different places on a particular day



What is the temperature difference between Lahulspiti and Srinagar ?

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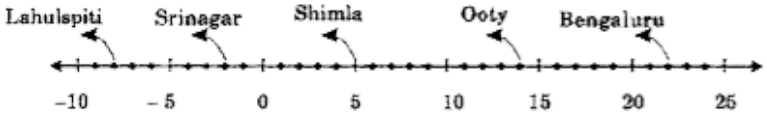
4. Following number line shown the temperature in degree celcius $(^{\circ}C)$ at different places on a particular day



Can we say temperature of Srinagar and Shimla taken together is less than the temperature at Shimla ?Is is also less than the temperature at Srinagar ?

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5. In a quiz ,positive marks are given for correct answers and negative marks are given for incorrect answers .If Jack 's score in five succesive

rounds were 25,-5,-10,15,10 what was hos total at the end .

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6. At Srinagar temperature was $-5^{\circ}C$ on Monday and then it dropped by $2^{\circ}C$ on Tuesday .What was the temperature of Srinagar on Tuesday ? On Wednesday , it rose by $4^{\circ}C$ .What was the temperature on this day ?

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7. A plane is flying at the height of 5000 m above the sea level .At a particular point , it is exactly above a submarine floating 1200 m below the sea level .What is the vertical distance between them ?

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8. Mohan deposits Rs. 2000 in his bank account and withdraws Rs . 1642 from it next day .If withdrawl of amount from the account is represented

by a negative integer then how will you represent the amount deposited ? Find the balance in Mohan 's account after the withdrawl ?

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9. Rita goes 20 km towards east from a point A to the point B . From B she moves 30 km towards west along the same road .If the distance towards the east is represented by a positive integer , then how will you represent the distance travelled towards west ? By which integer will you represent her final position from A ?

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10. In a magic square each row , column and diagonal have the same sum . Check which of the following is a magic square .

(i)

5	−1	−4
−5	−2	7
0	3	−3

(ii)

1	−10	0
−4	−3	−2
−6	4	−7

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11. Verify a-(-b) =a +b for the following value of a and b . a=4,b=7

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12. Use the sign of $>$, $<$ or = in the blank to make the statements true

1500g__1kg

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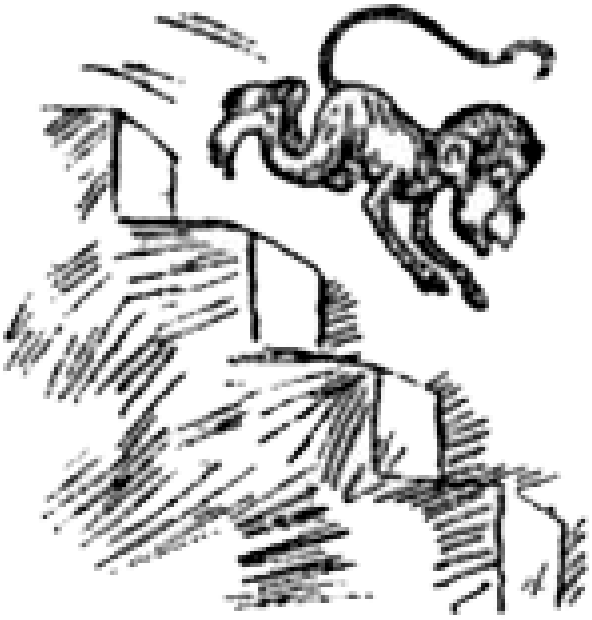
13. A water tank has steps inside it . A monkey is sitting on the top most step (i.e . The first step).The water leve is at the ninth step .



He jumps 3 steps down and then jumps back 2 steps up . In how many jumps will he reach the water level ?

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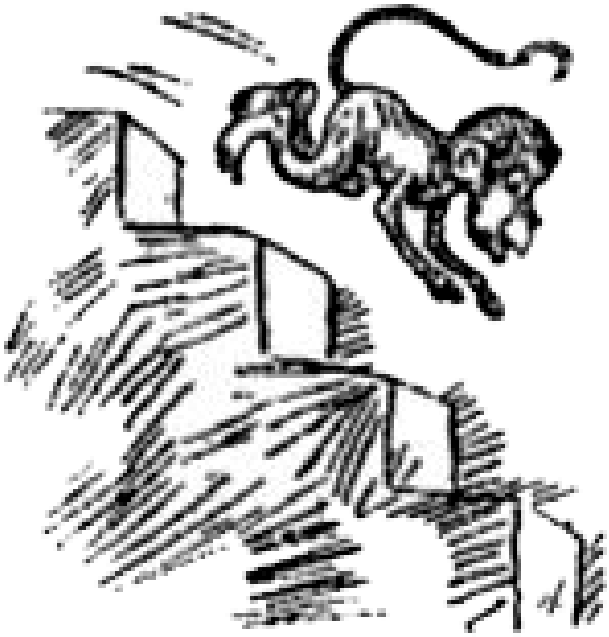
14. A water tank has steps inside it . A monkey is sitting on the top most step (i.e . The first step).The water leve is at the ninth step .



After drinking water , he wants to go back .For this he jumps 4 steps up and theu jumps back 2 steps down in evergy move .In how many jumps will be reach back the top step ?

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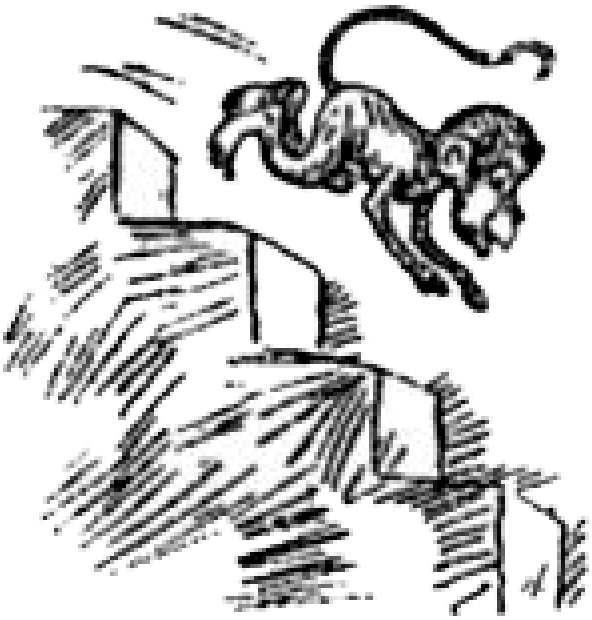
15. A water tank has steps inside it . A monkey is sitting on the top most step (i.e . The first step).The water level is at the ninth step .



If the number of steps moved down is represented by negative integers and the number of steps moved up by positive integers , represents his moves in part (i) and (ii) by completing the following (a) -3+2-.....=-8 (b) 4-2+.....=8 . In (a) the sum (-8) represents going down by eight steps .So what will the sum 8 in (b) represent?

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Exercise 1 2

1. Write down a pair of integers whose

sun is (-7)

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2. Write down a pair of integers whose

difference is (-10)

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3. Write down a pair of integers whose

sum is 0 .

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4. Write a pair of negative integers whose difference gives 8

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5. Write a negative integer and a positive integer whose sum is - 4

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6. Write a negative integer and a positive integer whose difference is -3.

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7. In a quiz , team A scored - 40 , 10 , 0 and team B scored 10 , 0 , - 40 three successive rounds .Which team scored more ? Can we say that can add integers in any order ?

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8. Fill in the blanks to make the following statements true

$(-5)+(-8)=(-8)+\_$

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9. $-53 + \_ = -53$

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10. Fill in the blank $17 + \_ = 0$

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11. $[13 + (12)] + \_ = 13 + [(-12) + (-7)]$

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12. $(-4) + [15 + (-3)] = [-4 + 15] + \_$

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Exercise 1 3

1. Find each of the following products

$3 \times (-1) =$

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2. Find each of the following products

$(-1) \times 225 =$

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3. Find each of the following products

$(-21) \times (-30) =$

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4. Find each of the following products

$(-316) \times (-1) =$

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5. Find each of the following products

$(-15) \times 0 \times (-18)$

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6. Find each of the following products

$(-12) \times (-11)] \times 10$

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7. Find each of the following products

$9 \times (-3) \times (-6)$

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8. Find each of the following products

$(-18) \times (-5) \times (-4)$

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9. Find each of the following products

$(-1) \times (-2) \times (-3) \times 4$

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10. Find each of the following products

$(-3) \times (-6) \times (-2) \times (-1)$

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11. Verify the following

(a) $18 \times [7 + (-3)] = [18 \times 7] + [18 \times (-3)]$

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12. For any integer a, what is $(-1) \times$ a equal to ?

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13. Starting from $(-1) \times 5$ write varius products showing some pattern to show $(-1) \times (-1) = 1$

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14. Find the products , using suitable properties .

$26 \times (-48) + (-48) \times (-36)$

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15. Find the products , using suitable properties .

$8 \times 53 \times (-125)$

Watch Video Solution

16. Find the products , using suitable properties .

$15 \times (-25) \times (-4) \times (-10)$

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17. Find the products , using suitable properties .

$-(41) \times 102$

Watch Video Solution

18. Find the products , using suitable properties .

$625 \times (-35) + (-625) \times 65$

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19. Find the products , using suitable properties .

$7 \times (50 - 2)$

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20. Find the products , using suitable properties .

$(-17) \times (-29)$

Watch Video Solution

21. Find the products , using suitable properties .

$(-57) \times (-19) + 57$

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22. A certain freezing process required that room temperature be lowered from $40^{\circ} C$ at the rate of $5^{\circ} C$ every hour .What will be the room temperature 10 hours after the process begins ?

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23. In a class test containing 10 questions , 5 marks are are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted.

Mohan gets four correct and six incorrect answers .What is his score ?

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24. In a class test containing 10 questions , 5 marks are are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted.

Reshma gets five correct answer and five incorrect answers . What is her score ?

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25. In a class test containing 10 questions , 5 marks are are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted.

Henna gets two correct and five incorrect answers out of seven questions she attempts .What is her score ?

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26. A cement company earns a profit of Rs.8 per bag of white cement sold and a loss of Rs.5 per bag of grey cement sold.

The company sells 3,000 bags of white cement and 5,000 bags of grey cement in a month. What is tis profit or loss?

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27. A cement company earns a profit of Rs.8 per bag of white cement sold and a loss of Rs.5 per bag of grey cement sold.

What is the number of white cement bags it mus sell to have neither profit nor loss, if the number of grey bags sold is 6,400 bags.

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28. Replace the blank with an integer to make it a true statement .

$(-3) \times \ldots. = 27$

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29. Replace the blank with an integer to make it a true statement .

$5 \times \ldots. = (-35)$

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30. Replace the blank with an integer to make it a true statement .

$\ldots . \times (-8) = -56$

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31. Replace the blank with an integer to make it a true statement .

$\ldots . \times (-12) = 132$

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Exercise 1 4

1. Evaluate each of the following :

$(-30) \div 10$

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2. Evaluate each of the following :

$50 \div (-5)$

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3. Evaluate each of the following :

$(-36) \div (-9)$

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4. Evaluate each of the following :

$(-36) \div (-9)$

$(-49) \div (49)$

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5. Evaluate each of the following :

$13 \div [(-2) + 1]$

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6. Evaluate each of the following :

$0 \div (-12) = 0$

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7. Evaluate each of the following :

$(-31) \div [(-30) + (-1)]$

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8. Evaluate each of the following :

$[(-36) \div 12] \div 3$

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9. Evaluate each of the following :

$[(-6) \div 5] \div [(-2) + 1]$

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10. Verify that $a \div (b + c) \neq (a \div b) + (a \div c)$ for each of the following values of a,b and c

$a = 12, b = -4, c = 2$

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11. Verify that $a \div (b + c) \neq (a \div b) + (a \div c)$ for each of the following values of a,b and c

$a = (-10), b = 1, c = 1$

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12. Fill in the blanks

$369 \div \_ = 369$

Watch Video Solution

13. $(-75) \div \_ = -1$

Watch Video Solution

14. $(-206) \div \_ = 1$

Watch Video Solution

15. $(-77) \div \_ = 77$

Watch Video Solution

16. $\_ \div 1 = -87$

Watch Video Solution

17. $(-48) \div \_ = -1$

Watch Video Solution

18. $20 \div \_ = -2$

Watch Video Solution

19. $\_ \div 4 = -3$

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20. Write a pair of integers (a,b)such that $a \div b = -3$ .One such pairs is (6,-2) because $6 \div (-2) = (-3)$

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21. The temperature at 12 noon was $10^{\circ}C$ above zero. If it decreases at the rate of $2^{\circ}C$ per hour until midnight, at what time would the temperature be $8^{\circ}C$ below zero? What would be the temperature at mid-night?

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22. In a class test (+3) makrs are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any question.

Radhika scored 20 marks. If she has got 12 correct answer, how many questions has she attempted incorrecly?

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23. An elevator descends into a mine shaft at the rate of $6m/\ \min$. If the descent starts frm 10m above the ground level, how long will it take to reach -350 m.

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Additional Questions For Practice Objective Type Questions

1. Fill in the blanks : Next number in the pattern -10,-7,-4,-1 is _.

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2. When 0 is divided by a non zero integer quotient is _

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3. Value of the ecpressioson $[(60) \div 12] \div (-5)$ is _.

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4. Inteher whose product with (-1) is 35 is _.

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5. Multiplication is distributive over _ and _ in integer.

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6. State whether true of false .

1 is the additive identity for intergers .

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7. Product of 7 negative integer is negative ,

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8. 0 is the successor of -1 .

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9. $-7 \times -9 \times 0$ is a positive interger.

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10. If a , b , c are three integers then $(a \div b) \div c = a \div (b \div c)$

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11. -7 . Divided by 0 is zero

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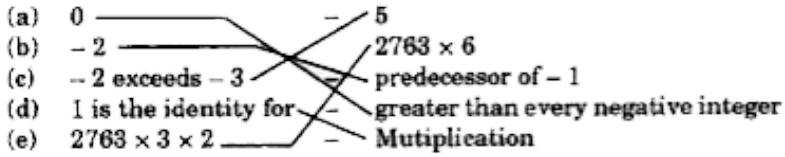
12. Match the following Column I to Column II



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Additional Questions For Practice Short Answer Type Questions

1. Justify the following statements .

Sum of a positive integer and a negative integer is always a positive integer.

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2. Product of two integers is always greater than the sum of integers.

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3. Find using distributive properties

$5439 + 5439 \times 9$

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4. Evaluate using suitable rearrangement .

$-8 \times 63 \times 25 \times -10$

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5. Evaluate using suitable rearrangement .

$50 \times 1695 \times 2$

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6. Sum of two integers is - 24 . If one of the integer is 30 , find the other .

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7. By what number should 625 to be divided to obtain (-25).

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8. Multiply 12 by (-1) and state whether the product is the additive inverse of 12 or not .

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Additional Questions For Practice Long Answer Type Questions

1. Verify -

$$210 \times [(-3) + (-7)] = [(-210) \times (-3)] + [(-210) \times (-7)]$$

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2. A fruit merchant gets a profit of Rs. 120 per bag of apples sold and loss of Rs. 60 per bag on orange sold .find the number of bags of apples he should sell to make no profit no loss . If he sold 40 bags of oranges.

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3. A kite begin to decend towards the ground from aheight of 7250 feet . If it decends at the rate of 250 feet per minute , find the height after 15 minutes .

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4. At the end of fourth round of the quiz contest . Ranya scored 120 points . In the final round , she lost 3 points each for 6 questions and gained 2 points each for 7 questions . What was her score at the end ?

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Sample Paper For Practice

1. Fill in the blanks

..... Is the greatest negative integer .

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2. There are ..... pairs of integers satisfying $a \div b = -1$

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3. When we add an integer and its additive inverse we get .....

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4. 9 km to south can be indicated using interger.....

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5. Division of any integer by zero is .....

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6. Multiplecative inverse of -9 is .....

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7. State whether true or false

Closure property holds true for division of integers .

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8. Convert the following

1200cm=____mm

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9. -17×9 is a whole number .

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10. Integer 0 has no predecessor .

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11. Every negative integer is smaller than zero .

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12. 4 more than - 2 is 1 .

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13. Justify the statements whether sum of two integers is always greater then their difference .

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14. Calcuulate the sum of $(7)+(-7)+(7)+(-7)+\ldots.$

If the number of terms is 100

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15. Calculate the sum of $(7)+(-7)+(7)+(-7)+\ldots.$

If the number of terms is 199 .

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16. Find an integer which when multiplied by 3 and then divided by 2 becomes -21 .

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17. Write the pairs of intergers whose

sum is -5

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18. Write a pair of integer whose difference is -9

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19. Write the pair of integers whose product is -15

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20. A number when divide by 6 gives the quotient 6. What is the number?

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21. Rohan bought 80 chocolates . He kept 10 chocolates with him and distributed remaining chocolates equally among 7 friends .How many did each get ?

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22. Integers 10 , -7 , 5 ,3,-4, 0 are marked on the number line Arrange them in ascending order .Write the integer which lies on the extreme right and extreme left .

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23. Verify $a \times (b + c) = a \times b + a \times c$ for $a = 3, b = -2, c = -1$

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24. Evaluate each of the following :

$(-31) \div [(-30) + (-1)]$

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25. Evaluate

$[(-39) \div 13] \div 3$

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