MATHS

BOOKS - JNAN PUBLICATION

ADDITION, SUBSTRATION MULTIPLICATION & DIVISION OF INTEGERS

Example

1. For addition of 2 positive integers on number line, from the position of the first integer one has to move further

□

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2. For addition of 2 negative integers on number line, from the position of the first integer one has to move further □

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3. For subtraction of 2 positive integers on number line, from the position of the first integer one has to move further □

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4. For subtraction of 2 negative integers on number line, from the position of the first integer one has to move further □

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5. Let's us match two sided verifying the laws:-

$(+6)+(-2)=(-2)+(+6)$

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6. Let's us match two sided verifying the laws:-

$(-8)-(+2)\neq(+2)-(-8)$

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7. Let's us match two sided verifying the laws:-

$\{(-1)-(-11)\}-(-12) \neq (-1)-\{(-11)-(12)\}$

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8. Let's us match two sided verifying the laws:-

$\{(+3)+(-7)\}+(-11)=(+3)+\{(-7)+(-11)\}$

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9. Let us write a negative integer which is the sum of two negative integers.

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10. Let us write a negative integer which is the sum of two negative integers.

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11. Let us write such a negative integer which is the difference of two negative integers.

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12. Fill in the blanks.

$6 \times (-8) = ? = -48$

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13. Fill in the blanks.

$7 \times (-3) = ? = -21$

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14. Fill in the blanks.

$9 \times (-12) = ? = -108$

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15. Let's find the value of $(-5) \times (-2)$ starting from

$(-5) \times 2$

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16. Let's find the value of $(-7) \times (-3)$ starting from $(-7) \times 3$

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17. Let's Find the value of $(-6) \times (-2)$ starting from $(-6) \times 4$

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18. Let's find the value of

$(-7) \times (-9) = ?$

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19. Let's find the value of

$-2 \times (-33) =$

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20. Let's find the value of

$0 \times (-6) = ?$

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21. Let's find the value of

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

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22. Let's find the value of

$(-7) \times 0 = ?$

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23. Let's complete the table given below:

$(-20) \times 11 + (-35) \times 20 = ?$

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24. Let's complete the table given below:

$4 \times (-4) + (-5) \times 5 = ?$

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25. Let's complete the table given below:

$(-6) \times (-10) + (-4) \times 4 = ?$

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26. Solve :- $(-6) \times (-5) \times (-3) = ?$

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27. Solve :-

$(-5) \times (-2) \times (-10) \times (-8) \times (-3) = ?$

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28. Solve :- $(-11) \times (-12) \times (-2) = ?$

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29. Solve :-

$(-11) \times (-9) \times (-5) \times (-6) \times (-3) = ?$

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30. Solve :- $9 \times (8 + 3)$?

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31. Solve :- $6 \times (5 + 4) = ?$

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32. Mizanoor, Tiratha and nafura appeared for an examination, there were 10 Question in the examination. In this examination one will get 5 marks for each correct answer and -2 marks for each incorrect answer. A) Mizanoor has got 6 correct and rest 4 incorrect answers.

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33. Mizanoor, Tiratha and nafura appeared for an examination, there were 10 Question in the examination.

In this examination one will get 5 marks for each correct answer and -2 marks for each incorrect answer. A) Tirath has got 5 correct and remaning 4 incorrect answers.

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34. Mizanoor, Tiratha and nafura appeared for an examination, there were 10 Question in the examination. In this examination one will get 5 marks for each correct answer and -2 marks for each incorrect answer. A) Nafura has got 3 correct and remaning 7 incorrect answers.let's find what is the marks obtained by Nafura.

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35. In a furniture shop, 15 wooden almirahs were sold in a month there was a profit of Rs 300 on each of the 10 almirahs. But from remaning 5 almirah there was a loss of Rs 200 per almirah. What is the profit or loss the shop owner for the month let's find.

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36. In a cool mine a lift goes down from the surface at the rate of 6 meter per mintue. Let's find what will be its position after 30 mintues. If the lift would have started getting down from a place 20 m above the ground what will be its position after 30 mintues, Let's find.Let's

assume the distance above the ground to be positive and thats below the ground to be negative.

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37. In another mine, the lift goes down 4 m in every one min. what will be the position of the lift after an hour, Let's find.

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38. In another mine, the lift goes down 4 m in every one min. If the lift starts from 15 m above the ground, let's find the position of the lift after 30 mintue.

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39. Let's take 4 examples with numbers and show that division of integers do not follow the law of association.

$125 \div \{(-25) \div (5)\}$

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40. Let's take 4 examples with numbers and show that division of integers do not follow the law of association.

$36 \div \{18 \div (-2)\}$

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41. Let's take 4 examples with numbers and show that division of integers do not follow the law of association.

$-12 \div \{(-8) \div 2\}$

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42. Let's take 4 examples with numbers and show that division of integers do not follow the law of association.

$60 \div \{20 \div (-4)\} \neq (60 \div 20) \div (-4)$

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43. Let's calculate the values metally:

$(-10) \times 4 = ?$

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44. Let's calculate the values metally:

$(-15) \times ? = -90$

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45. Let's calculate the values metally:

$25 \times ? = -125$

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46. Let's calulate the values mentally : $(-16) \times \square = 96$

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47. Let's calulate the values mentally : $(-13) \times \square = -104$

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48. Let's calulate the values mentally : $\square \times 21 = -126$

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49. Let's calulate the values mentally : $(-16) \times \square = 96$

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50. Let's calulate the values mentally :

$\square \times (-30) = 330$

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51. Let's calulate the values mentally : $(-26) \div \square = 1$

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52. Let's calulate the values mentally : $\square \div 1 = -29$

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53. Let's calulate the values mentally : $\square \div -59 = -1$

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54. Let's calculate the values metally:

$? \div 87 = -87$

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55. In an examination joseph answered 15 question, of which 9 answers were correct answers but the remaining 6 were incorrect. If he gets 5 marks for each correct answer and his total is 33, let 's find the marks alloted for incorrect answer in the examinations.

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56. Rehana and sayan both appered for an examination & each of them will have to answer 12 questions (i) Rehana got 36 marks in total by answering 8 questions correctly and remaining 4 questions incorrectly. If she got 6 marks for each correct answers. (ii) Sayan got 6 questions correctly and remaining 6 questions incorrectly. Let's find total marks obtained by him.

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57. Temperature of a certain place is $12^{\circ}C$. If the temperature reduces uniformly in every hour and reaches to -$40^{\circ}C$ after 8 hour. Let's find the rate of reduction of temperature hour.

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58. A lift in a mine moves down 24m in 8 mins. If its moves in an uniform rate, let's find at what distance below the surface, it will be after 6 mins. If the lift starts from a height 10 m above the ground, let's find how deep the lift will go from the surface after 70 mins.

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59. Let fill up the blanks squares :-

$-16 \div (-2) + ? = -1$

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60. Let fill up the blanks squares :-

$20 - 50 \div ? = -1$

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61. Let fill up the blanks squares :-

$41 \times (-5) + ? = -3$

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62. Let fill up the blanks squares :-

$(-9) \times (-3) \times ? = -81$

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63. Let fill up the blanks squares :-

$(-15) \div (-5) - ? = -1$

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64. Let fill up the blanks squares :-

$(-18) \div ? + 3 = -6$

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65. Let fill up the blanks squares :-

$? \div 4 - 2 = -7$

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66. Let fill up the blanks squares :-

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

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67. Let us take 2 examples to show that the commutative law holds in case of multiplication but does not hold for division of integers.

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68. Let us take 2 examples to show that the distributive law holds in case of multiplication but does not always hold for division of integers.

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69. Let's find the values of the following ---- $(-125) \div 5$

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70. Let's find the values of the following ---- $(-144) \div 6$

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71. Let's find the values of the following ---- $(-49) \div 7$

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72. Let's find the values of the following ---- $(225) \div (-3)$

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73. Let's find the values of the following ---- $169 \div (-13)$

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74. Let's find the values of the following ---- $100 \div (-5)$

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75. Let's find the values of the following ---- $(-81) \div (-9)$

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76. Let's find the values of the following ----

$(-150) \div (-5)$

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77. Let's find the values of the following ----

$(-121) \div (-11)$

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78. Let's find the values of the following ----

$(-275) \div (-25)$

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