



MATHS

BOOKS - JNAN PUBLICATION

Concept Of Directed Number And Number Line

Example

1. Let us draw a number line and put the following numbers on the line and name them.

(a) +5, -2, +3, -6, +2, -5 respectively name as A-B-C-D-E-F



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2. Let us draw a number line and put the following numbers on the line and name them.

(b) Let's measure how many units E is from B



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3. Let us draw a number line and put the following numbers on the line and name them.

(c) How many units A is from B towards right.



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4. Let us draw a number line and put the following numbers on the line and name them.

(d) How many units D is from E towards left.



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5. Let us draw a number line and put the following numbers on the line and name them.

(f) What is the relation between the numbers which are at A & F.



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6. Let us draw a number line and put the following numbers on the line and name them.

(g) What are the absolute values of the numbers of B & E.



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7. What do the following mean- (a) Profit of - 10 rupees



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8. What do the following mean- (b) 15m above



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9. What do the following mean- (c) -36g less



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10. What do the following mean- (d) - 18 meter
towards east



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11. What do the following mean- (e) saved -23
rupees



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12. What do the following mean- (f) - 5 km towards south.



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13. Let's write the absolute values of the following numbers (a) -12



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14. Lets write the absolute values of the following numbers $(b) + 13$



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15. Lets write the absolute values of the following numbers $(c) -22$



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16. Lets write the absolute values of the following numbers (d) -61



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17. Lets write the absolute values of the following numbers (e) $+17$



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18. Let's find the opposite of the following (a)

spent 10 Rs



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19. Let's find the opposite of the following (b)

Climbed up - 15m



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20. Let's find the opposite of the following (c)

Profit of 81



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21. Let's find the opposite of the following (d)

move -35m down



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22. Let's find the opposite of the following (e)

-24 kg increase in wieght



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23. Let's find the opposite of the following (f)

28 m towards right



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24. Let's find the opposite of the following (g)

9 kg decrease of weight.



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25. Using number line, put $<$ or $>$ in the blank

spaces.(i) $0 ___ 5$



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26. Using number line, put $<$ or $>$ in the blank spaces.(ii) $0 ___ -6$



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27. Using number line, put $<$ or $>$ in the blank spaces.(iii) $6 ___ -6$



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28. Using number line, put $<$ or $>$ in the blank spaces.(iv) $2_ -10$



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29. Using number line, put $<$ or $>$ in the blank spaces.(v) $-1_ 11$



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30. Using number line, put $<$ or $>$ in the blank spaces.(vi) 11_15



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31. Using number line, put $<$ or $>$ in the blank spaces.(vii) -10_2



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32. Using number line, put $<$ or $>$ in the blank spaces.(viii) -10 ___ -5



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33. (i) Let's write 4 negative whole numbers less than -12



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34. (ii) Let's write 4 negative whole numbers greater than -8



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35. Adding on a number line- (i) (+7), (+2)



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36. Adding on a number line- (ii) (+2), (-4)



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37. Adding on a number line- (iii) (+6), (-11)



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38. Adding on a number line- (iv) (-5), (-7)



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39. Adding on a number line- (v) (+8), (-8)



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40. Adding on a number line- (vi) $(+7)$, (-7)



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41. Adding on a number line- (vii) $(+9)$, (-17)



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42. Adding on a number line- (viii) (-11) , (-9)



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43. Let's add the following- (i) $(+9) + (+2)$



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44. Let's add the following- (ii) $(+11) + (+5)$



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45. Let's add the following- (iii) $(+27) + (-11)$



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46. Let's add the following- (iv) $(-25) + (+6)$



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47. Let's add the following- (v) $(-5) + (+9)$



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48. Let's add the following- (vi) $(+13) + (-13)$



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49. (i) $(-6) - (+2) =$



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50. (ii) Solve $(-12) - (+12) = ?$



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51. (iii) Solve, $(+11) - (+3) = ?$



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52. (iv) Solve $(-7) - (+8) = ?$



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53. (v) Solve $(+20) - (-7) = ?$



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54. (vi) Solve $(-18) - (-8) = ?$



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55. (vii) Solve $(-9) - (-9) = ?$



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56. (viii) Solve $(+13) - (-7) = ?$



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57. Mark (\checkmark) for correct statement and (\times) for wrong statement. (1) There are definite

numbers of positive whole numbers \rightarrow __



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58. Mark (\checkmark) for correct statement and (\times) for wrong statement. (2) 5,3 is a natural number
 \rightarrow ___



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59. Mark (\checkmark) for correct statement and (\times) for wrong statement. (3) -2.1 is a natural number

→ ____



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60. Mark (✓) for correct statement and (×) for wrong statement. (4) There is no existence of biggest whole number → ____



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61. Using concept of opposite number, let's subtract. (i) $(+14) - (+16)$



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62. Using concept of opposite number, let's subtract. (ii) $(+25) - (+21)$



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63. Using concept of opposite number, let's subtract. (iii) $(+34) - (-19)$



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64. Using concept of opposite number, let's subtract. (iv) $(-15) - (-27)$



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65. Using concept of opposite number, let's subtract. (v) $(-25) - (+13)$



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66. Using concept of opposite number, let's subtract. (vi) $(-16) - (-10)$



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67. Using concept of opposite number, let's subtract. (vii) $(+31) - (-12)$



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68. Using concept of opposite number, let's subtract. (viii) $(-31) - (-45)$



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69. Using concept of opposite number, let's subtract. (ix) $(-21) - (+21)$



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70. Let's put $>$, $<$ or $=$ in respective blank spaces

: (a) $(+13) + (-8) \square (+3) - (-2)$



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71. Let's put $>$, $<$ or $=$ in respective blank spaces

: (b) $(-12) - (-10) \square (-9) + (+3)$



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72. Let's put $>$, $<$ or $=$ in respective blank spaces

: (c) $(+35) - (-5) \square (-24) - (-64)$



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73. Let's put $>$, $<$ or $=$ in respective blank spaces

: (d) $(-18) - (+6) \square (-18) - (-6)$



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74. Let's put $>$, $<$ or $=$ in respective blank spaces

: (e) $(-45) - (-52) \square (-52) - (-45)$



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75. Let's put $>$, $<$ or $=$ in respective blank spaces

: (f) $(+25) - (-19) \square (-25) - (+19)$



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76. Let's put numbers in blank spaces. (i) $(-3) +$

$$\underline{\hspace{1cm}} = 0$$



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77. Let's put numbers in blank spaces. (ii) $(+ 16)$

$$+ \underline{\hspace{1cm}} = 0$$



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78. Let's put numbers in blank spaces. (iii) $(-9) +$

$$\underline{\hspace{1cm}} = (-15)$$



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79. Let's put numbers in blank spaces. (iv) $\underline{\hspace{1cm}} +$

$$(-7) = (-10)$$



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80. Let's simplify (a) $(- 5) +$ (opposite number of $- 7$) $- 5$



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81. Let's simplify (b) $12 - (- 3) +$ (opposite number of $+ 6$)



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82. Let's simplify (c) $15 - (+4) + (\text{opposite number of } +9)$



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83. Let's simplify (d) $(\text{opposite number of } +20) - (\text{opposite number of } -7) - (-8)$



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84. Let's find, what must be added to the first to get second. (i) -7 , -12



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85. Let's find, what must be added to the first to get second. (ii) 24 , -32



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86. Let's find, what must be added to the first to get second. (iii) -17, 12



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87. Let's find, what must be added to the first to get second. (iv) 16, 0



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88. Let's find, what must be added to the first to get second. (v) 25, - 42



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89. Let's find, what must be added to the first to get the second. (i) (+7), (+2)



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90. Let's find, what must be added to the first to get the second. (ii) $(+7)$, (-2)



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91. Let's find, what must be added to the first to get the second. (iii) (-7) , $(+2)$



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92. Let's find, what must be added to the first to get the second. (iv) (-7) , (-2)



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93. Let's add the following on number line- (i) $(+5)$, $(+3)$



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94. Let's add the following on number line- (ii)

$(+5), (-3)$



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95. Let's add the following on number line- (iii)

$(-5), (+3)$



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96. Let's add the following on number line- (iv)

$(-5), (-3)$



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97. Let's verify associative property of addition for the following. (i) $(+5), (+3), (+2)$



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98. Let's verify associative property of addition for the following. (ii) $(+5)$, (-3) , $(+2)$



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99. Let's verify associative property of addition for the following. (iii) (-5) , (-3) , $(+2)$



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100. Let's verify associative property of addition for the following. (iv) (-5) , (-3) , (-2)



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