

EXERCISE 6

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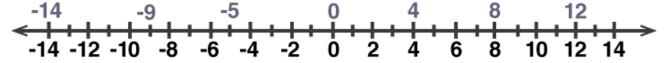
1. Fill in the blanks: (i) Negative of -20 is (ii) Negative of 0 is (iii) Negative of 8 is (iv) If 10 represents gain of ₹ 10, then -10 represents (v) If going south is negative then going north is (vii) If 3 > -2, then 3 is on the of -2. (viii) If -8 < -6, then -8 is on the of -6. Solution: (i) Negative of -20 is 20 (ii) Negative of 0 is 0 (iii) Negative of 8 is -8 (iv) If 10 represents gain of \gtrless 10, then -10 represents loss of \gtrless 10 (v) If going south is negative then going north is positive (vi) Because 5 < 7, therefore -5 less than -7 (vii) If 3 > -2, then 3 is on the right side of -2(viii) If -8 < -6, then -8 is on the left side of -6

2. Use a number line to write the following integers in ascending (increasing) order:
(i) -5, 8, 0, -9, 4, -14 and 12
(ii) -6, 7, 0, -9, 5 and 9

Solution:

(i) -5, 8, 0, -9, 4, -14 and 12

Draw a number line for given integers and mark on it all the integers as shown below

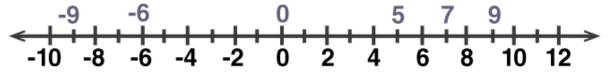


Hence, the given integers in the ascending order are:

-14 < -9 < -5 < 0 < 4 < 8 < 12

(ii) -6, 7, 0, -9, 5 and 9

Draw a number line for given integers and mark on it all the integers as shown below



Hence, the given integers in the ascending order are: -9 < -6 < 0 < 5 < 7 < 9

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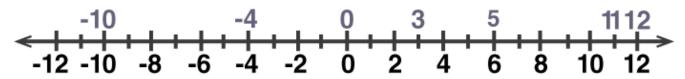


3. Use a number line to write the following integers in descending (decreasing) order:

(i) -10, 0, 3, -4, 12, 11, -1 and 5 (ii) -4, 3, -8, -12, -7 and 6 Solution:

(i) -10, 0, 3, -4, 12, 11, -1 and 5

Draw a number line for the given integers and mark on it all the integers as shown below

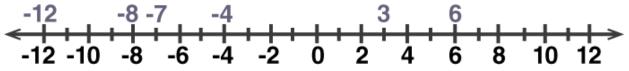


Hence, the given integers in the descending order are:

12 > 11 > 5 > 3 > 0 > -1 > -4 > -10

(ii) -4, 3, -8, -12, -7 and 6

Draw a number line for the given integers and mark on it all the integers as shown below



Hence, the given integers in the descending order are: 6 > 3 > -4 > -7 > -8 > -12

4. Add: (i) 13 and 15 (ii) -13 and 15 (iii) 13 and -15 (iv) -13 and -15 Solution: (i) 13 and 15 On adding these numbers, we get 13 + 15 = 28(ii) -13 and 15 On adding these numbers, we get (-13) + 15 = 2(iii) 13 and – 15 On adding these numbers, we get 13 + (-15) = 13 - 15= -2



(iv) -13 and -15 On adding these numbers, we get (-13) + (-15) = - 13 - 15 = - 28

5. Add: (i) 259 and 214 (ii) -528 and -243 (iii) -623 and 326 (iv) 258 and -473 (v) -622 and -254 (vi) 257 and - 254 **Solution:** (i) 259 and 214 On adding, we get = 259 + 214= 473(ii) -528 and -243 On adding, we get = -528 + (-243)= -528 - 243= - 771 (iii) - 623 and 326 On adding, we get = - 623 + 326 = - 297 (iv) 258 and -473 On adding, we get = 258 + (-473)= 258 - 473= - 215 (v) -622 and -254 On adding, we get = -622 + (-254)= -622 - 254= - 876 (vi) 257 and - 254 On adding, we get = 257 + (-254)



= 257 - 254 = 3

6. Subtract: (i) 5 from 8 (ii) -5 from 8 (iii) 4 from -7 (iv) -8 from -2 (v) -3 from 12 (vi) -6 from -3 **Solution:** (i) 5 from 8 On subtracting, we get = 8 - 5= 3 (ii) -5 from 8 On subtracting, we get = 8 - (-5)= 8 + 5= 13(iii) 4 from -7On subtracting, we get = -7 - 4= - 11 (iv) - 8 from -2On subtracting, we get = -2 - (-8)= - 2 + 8 = 6 (v) - 3 from 12 On subtracting, we get = 12 - (-3)= 12 + 3= 15(vi) - 6 from - 3On subtracting, we get = -3 - (-6)= - 3 + 6 = 3



7. Subtract: (i) – 123 from 453 (ii) -78 from – 12 (iii) 329 from - 124 (iv) -222 from 0 **Solution:** (i) - 123 from 453 On subtracting, we get =453 - (-123)=453 + 123= 576 (ii) - 78 from -12 On subtracting, we get = -12 - (-78)= -12 + 78= 66 (iii) 329 from -124 On subtracting, we get = -124 - 329= - 453 (iv) -222 from 0 On subtracting, we get = 0 - (-222)= 0 + 222= 222