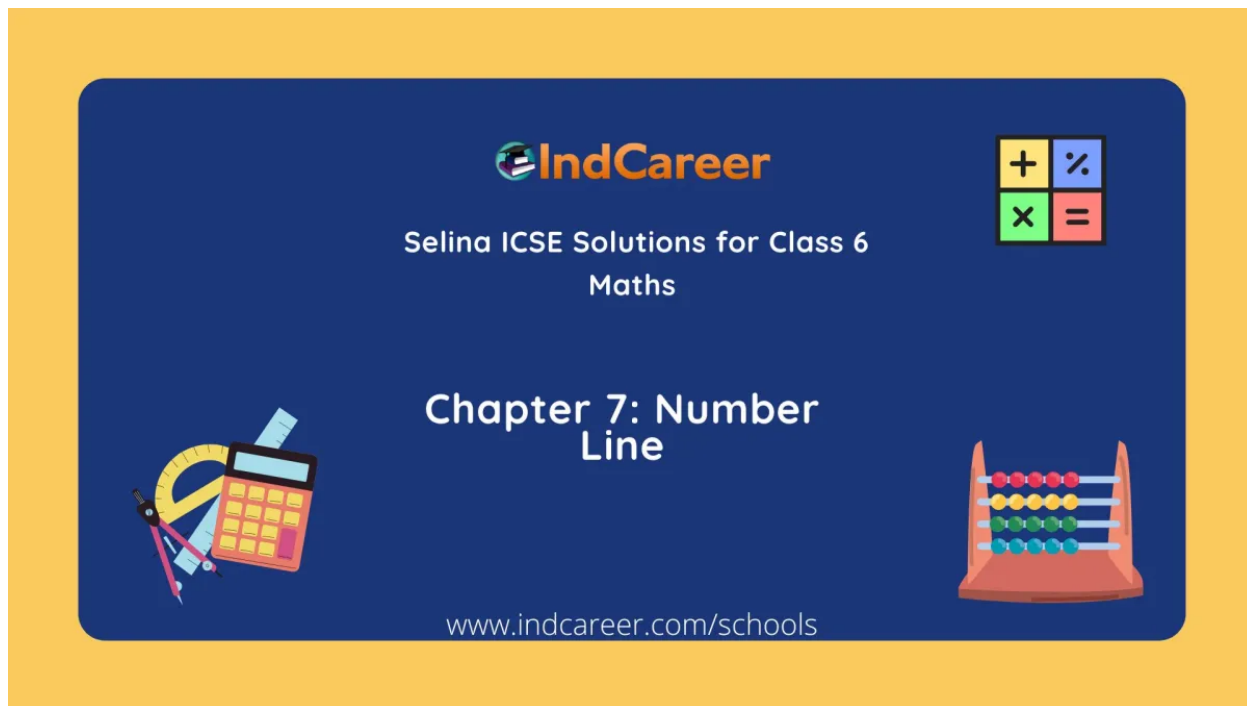


Selina Class 6 ICSE Solutions Mathematics : Chapter 7- Number Line



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Selina Class 6 ICSE Solutions Mathematics :

Chapter 7- Number Line

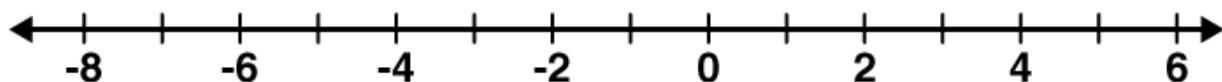
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Selina Class 6 ICSE Solutions Mathematics : Chapter 7- Number Line

Selina 6th Maths Chapter 7, Class 6 Maths Chapter 7 solutions

Exercise 7(A) page no: 55

1. Fill in the blanks, using the following number line:



- (i) An integer, on the given number line, is than every number on its left.
- (ii) An integer on the given number line is greater than every number to its
- (iii) 2 is greater than -4 implies 2 is to the of -4.
- (iv) -3 is than 2 and 3 is than -2.
- (v) -4 is than -8 and 4 is than 8.
- (vi) 5 is than 2 and -5 is than -2.
- (vii) -6 is than 3 and the opposite of -6 is than opposite of 3.
- (viii) 8 is than -5 and -8 is than 5.

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Solution:

(i) An integer, on the given number line, is **greater** than every number on its left.

(ii) An integer, on the given number line, is greater than every number to its **left**.

(iii) 2 is **greater** than -4 implies 2 is on the **right** of -4

(iv) -3 is **less than** 2 and 3 is **greater** than -2

(v) -4 is **greater** than -8 and 4 is **less than** 8

(vi) 5 is **greater** than 2 and -5 is **less** than -2

(vii) -6 is **less** than 3 and the opposite of -6 is **greater** than opposite of 3

(viii) 8 is **greater** than -5 and -8 is **less** than 5

2. In each of the following pairs, state which integer is greater :

(i) - 15, - 23

(ii) - 12, 15

(iii) 0, 8

(iv) 0, - 3

Solution:

(i) -15, -23

-15 lies on the right side of -23 on the number line. Therefore, -15 is greater than -23

(ii) -12, 15

15 lies on the right side of -12 on the number line. Hence, 15 is greater than -12

(iii) 0, 8

8 lies on the right side of 0 on the number line. Therefore, 8 is greater than 0

(iv) 0, -3

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0 lies on the right side of -3 on the number line. Hence, 0 is greater than -3

3. In each of the following pairs, state which integer is smaller :

(i) 0, - 6

(ii) 2, - 3

(iii) 15, - 51

(iv) 13, 0

Solution:

(i) -6 lies on the left side of 0 on the number line. Hence, -6 is smaller than 0

(ii) -3 lies on the left side of 2 on the number line. Therefore, -3 is smaller than 2

(iii) -51 lies on the left side of 15 on the number line. Hence, -51 is smaller than 15

(iv) 0 lies on the left side of 13 on the number line. Therefore, 0 is smaller than 13

4. In each of the following pairs, replace * with < or > to make the statement true:

(i) 3 * 0

(ii) 0 * - 8

(iii) - 9 * - 3

(iv) - 3 * 3

(v) 5 * - 1

(vi) - 13 * 0

(vii) - 8 * - 18

Solution:

(i) 3 lies on the right side of 0 on the number line $\Rightarrow 3 > 0$

Hence, 3 is greater than 0

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(ii) 0 lies on the right side of -8 on the number line $\Rightarrow 0 > -8$

Therefore, 0 is greater than -8

(iii) -9 lies on the left side of -3 on the number line $\Rightarrow -9 < -3$

Hence, -9 is smaller than -3

(iv) -3 lies on the left side of 3 on the number line $\Rightarrow -3 < 3$

Therefore, -3 is smaller than 3

(v) 5 lies right side of -1 on the number line $\Rightarrow 5 > -1$

Hence, 5 is greater than -1

(vi) -13 lies left side of 0 on the number line $\Rightarrow -13 < 0$

Therefore, -13 is smaller than 0

(vii) -8 lies on the right side of -18 on the number line $\Rightarrow -8 > -18$

Hence, -8 is greater than -18

5. In each case, arrange the given integers in ascending order, using a number line:

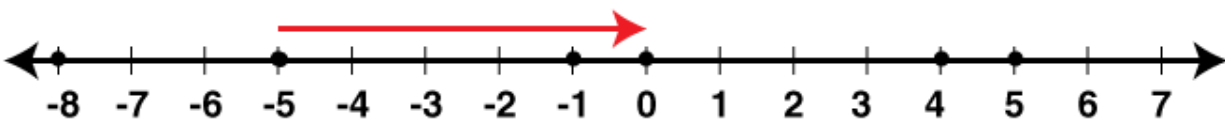
(i) -8, 0, -5, 5, 4, -1

(ii) 3, -3, 4, -7, 0, -6, 2

Solution:

(i) -8, 0, -5, 5, 4, -1

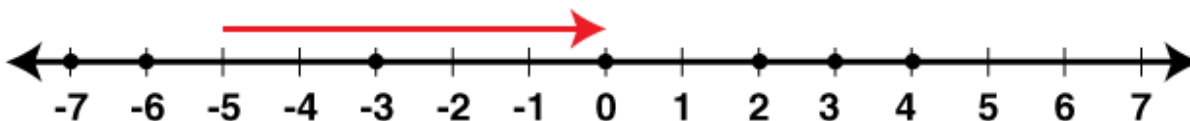
Draw a number line and mark the given integers in ascending order as -8, -5, -1, 0, 4, 5 on the number line as shown below



(ii) 3, -3, 4, -7, 0, -6, 2

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Draw a number line and mark the given integers in ascending order as -7, -6, -3, 0, 2, 3, 4 on the number line as shown below



6. In each case, arrange the given integers in descending order, using a number line:

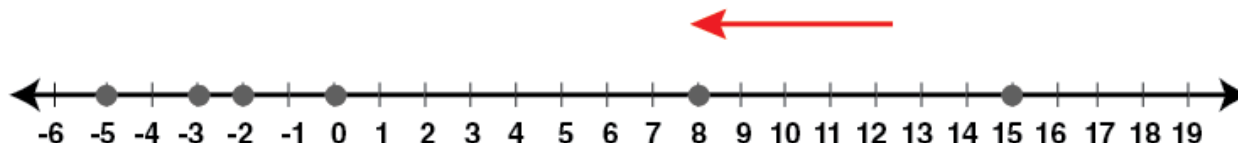
(i) -5, -3, 8, 15, 0, -2

(ii) 12, 23, -1, 0, 7, 6

Solution:

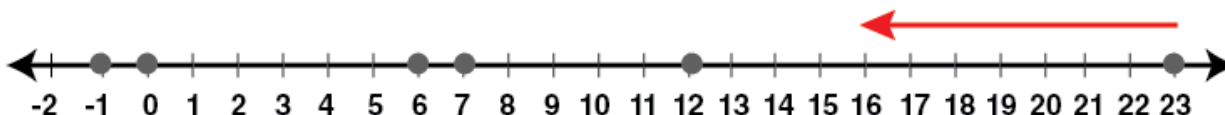
(i) -5, -3, 8, 15, 0, -2

Draw a number line and mark the given integers on it. Arranging these integers in descending order 15, 8, 0, -2, -3, -5 as shown below on the number line



(ii) 12, 23, -1, 0, 7, 6

Draw a number line and mark the given integers on it. Arranging these integers in descending order 23, 12, 7, 6, 0, -1 as shown below on the number line



7. For each of the statements given below, state whether it is true or false:

(i) The smallest integer is 0.

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(ii) The opposite of -17 is 17

(iii) The opposite of zero is zero

(iv) Every negative integer is smaller than 0

(v) 0 is greater than every positive integer

(vi) Since zero is neither negative nor positive, it is not an integer

Solution:

(i) False

(ii) True

(iii) True

(iv) True

(v) False

(vi) False

Exercise 7(B) page no: 59

1. Use a number line to evaluate each of the following:

1. (i) $(+7) + (+4)$ (ii) $0 + (+6)$ (iii) $(+5) + 0$

2. (i) $(-4) + (+5)$ (ii) $0 + (-2)$ (iii) $(-1) + (+4)$

3. (i) $(+4) + (-2)$ (ii) $(+3) + (-6)$ (iii) $3 + (-7)$

4. (i) $(-1) + (-2)$ (ii) $(-3) + (-4)$ (iii) $(-2) + (-5)$

5. (i) $(+10) - (+2)$ (ii) $(+8) - (-5)$ (iii) $(-6) - (+2)$

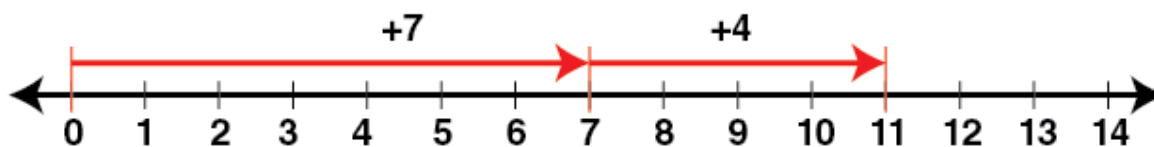
(iv) $(-7) - (+5)$ (v) $(+4) - (-2)$ (vi) $(-8) - (-4)$

Solution:

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1. (i) $(+7) + (+4)$

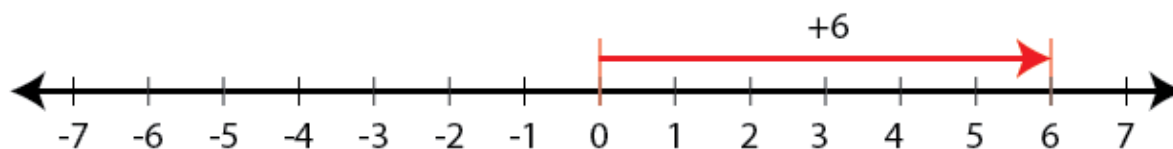
Move 7 units to the right of zero for $(+7)$ and move 4 units to the right of $+7$ for $(+4)$



Hence, $(+7) + (+4) = +11$

(ii) $0 + (+6)$

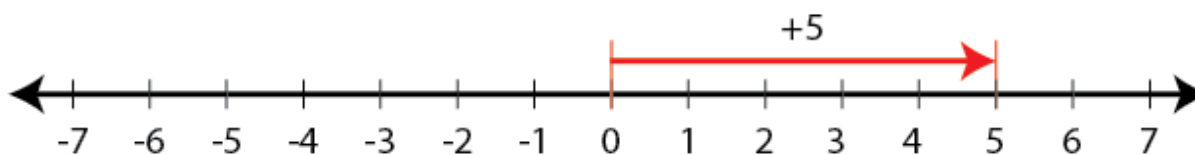
No movement for 0 and move 6 units to the right of zero for $(+6)$



Hence, $0 + (+6) = +6$

(iii) $(+5) + 0$

Move 5 units to the right of 0 for $(+5)$ and for 0, no movement

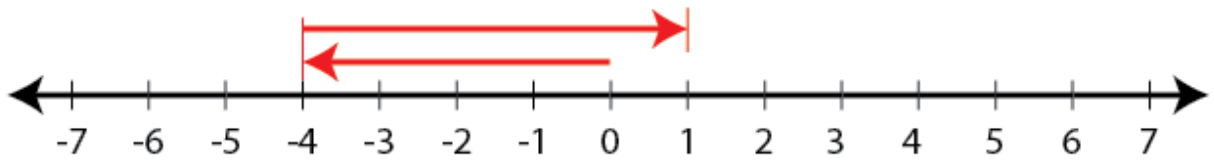


Hence, $(+5) + 0 = +5$

2. (i) $(-4) + (+5)$

Move 4 units to the left of 0 for (-4) and move 5 units to the right of -4 for $(+5)$

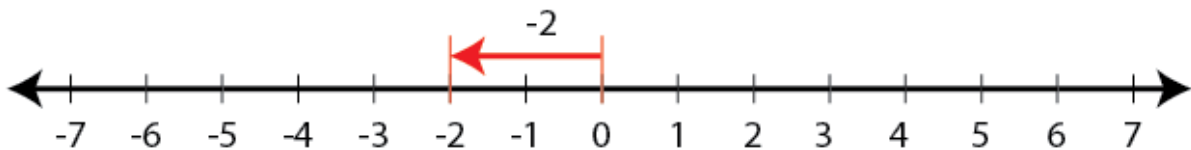
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Hence, $(-4) + (+5) = +1$

(ii) $0 + (-2)$

No movement for 0 and move 2 units to the left of 0 for -2



Hence, $0 + (-2) = -2$

(iii) $(-1) + (+4)$

Move 1 unit to the left of 0 for (-1) and move 4 units to the right of -1 for (+4)



Hence, $(-1) + (+4) = +3$

3. (i) $(+4) + (-2)$

Move 4 units to the right of 0 for (+4) and move 2 units to the left of +4 for (-2)

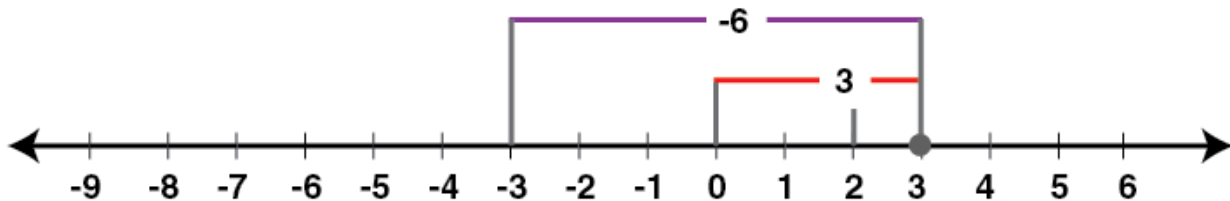


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Hence, $(+4) + (-2) = +2$

(ii) $(+3) + (-6)$

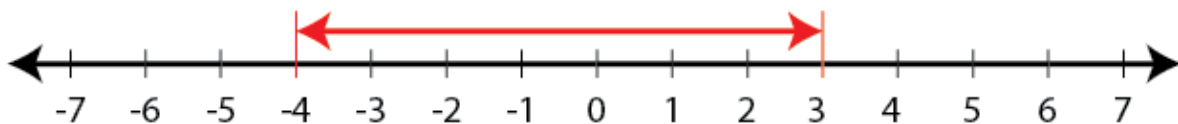
Move 3 units to the right of 0 for $(+3)$ and move 6 units to the left of 3 for (-6)



Hence, $(+3) + (-6) = -3$

(iii) $3 + (-7)$

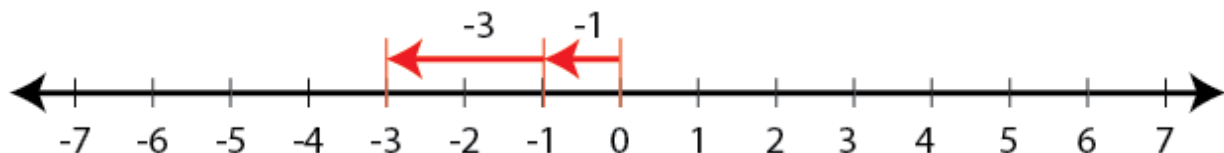
Move 3 units to the right of 0 for (3) and move 7 units to the left of 3 for (-7)



Hence, $3 + (-7) = -4$

4. (i) $(-1) + (-2)$

From 0, move 1 unit to the left for (-1) and move 2 units to the left of -1 for (-2)

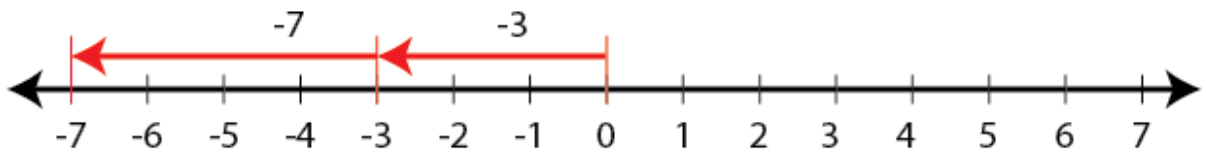


Hence, $(-1) + (-2) = -3$

(ii) $(-3) + (-4)$

From 0, move 3 units to the left for (-3) and move 4 units to the left of -3 for (-4)

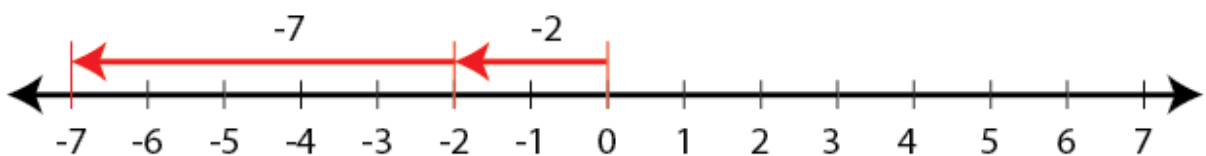
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Hence, $(-3) + (-4) = -7$

(iii) $(-2) + (-5)$

Move 2 units to the left from 0 for (-2) and move 5 units to the left of -2 for (-5)



Hence, $(-2) + (-5) = -7$

5. (i) $(+10) - (+2)$

From $+2$, it took 8 steps to reach the position of number $+10$ to the right



Hence, $(+10) - (+2) = +8$

(ii) $(+8) - (-5)$

Starting from the position of -5 , it took 13 steps towards right to reach $+8$

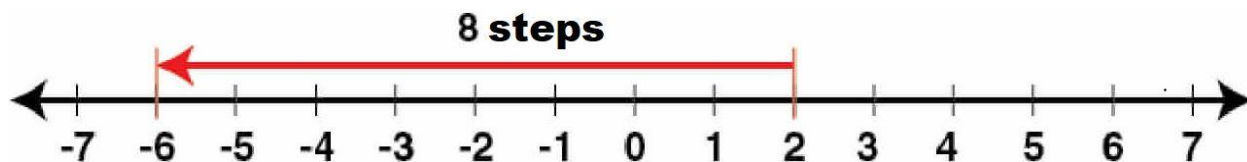


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Hence, $(+8) - (-5) = +13$

(iii) $(-6) - (+2)$

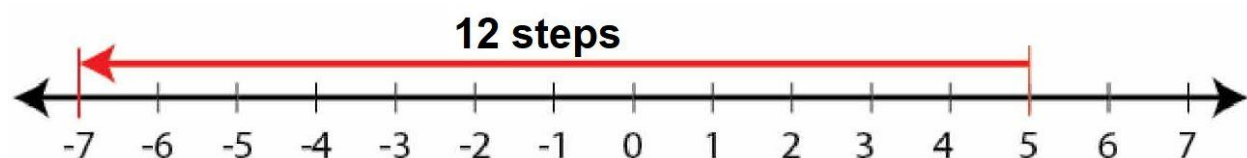
From +2, it took 8 steps towards left to reach -6



Hence, $(-6) - (+2) = -8$

(iv) $(-7) - (+5)$

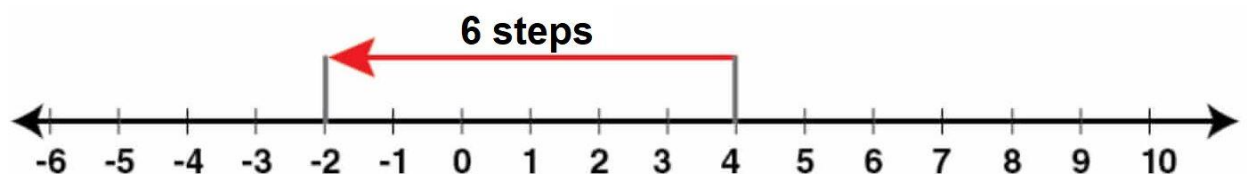
From +5, it took 12 steps towards left to reach -7



Hence, $(-7) - (+5) = -12$

(v) $(+4) - (-2)$

From +4, it took 6 steps towards left to reach the number -2

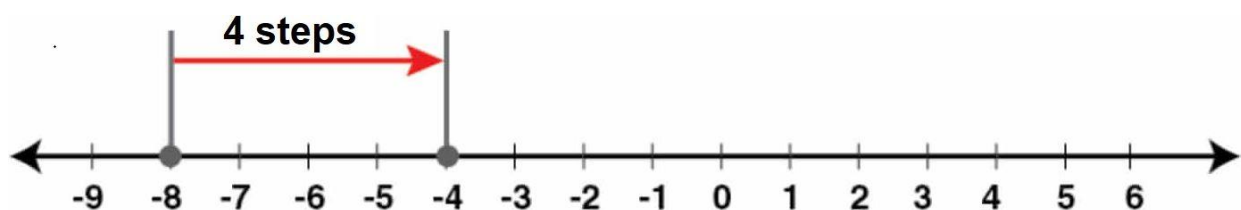


Hence, $(+4) - (-2) = +6$

(vi) $(-8) - (-4)$

From -8, it took 4 steps towards right to reach -4

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Hence, $-8 - (-4) = -4$

6. Using a number line, find the integer which is:

(i) 3 more than -1

(ii) 5 less than 2

(iii) 5 more than -9

(iv) 4 less than -4

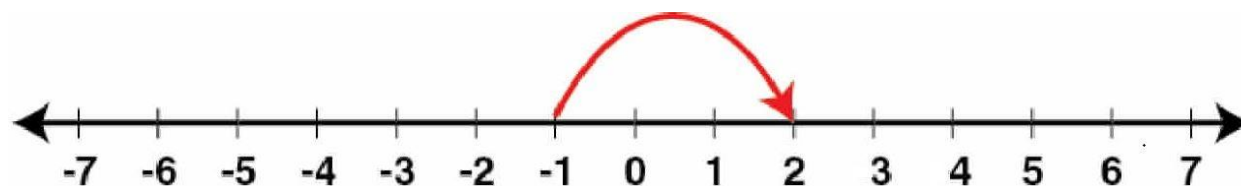
(v) 7 more than 0

(vi) 7 less than -8

Solution:

(i) 3 more than -1

To get 3 more than -1, from -1 move 3 units to the right of -1 to get 2

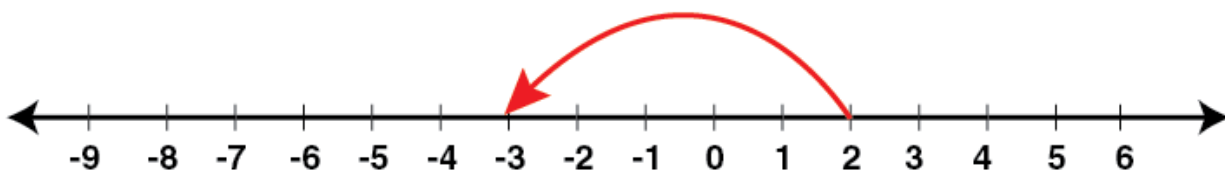


Therefore, $3 \text{ more than } -1 = 2$

(ii) 5 less than 2

To get 5 less than 2, from 2 move 5 units to the left of 2 to get -3

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Therefore, 5 less than 2 = -3

(iii) 5 more than -9

To get 5 more than -9, from -9 move 5 units to the right of -9 to get -4



Therefore, 5 more than -9 = -4

(iv) 4 less than -4

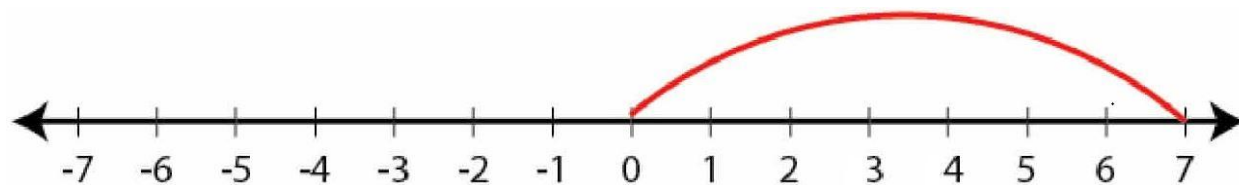
To get 4 less than -4, from -4 move 4 units to the left of -4 to get -8



Therefore, 4 less than -4 = -8

(v) 7 more than 0

To get 7 more than 0, from 0 move 7 units to the right of 0 to get 7

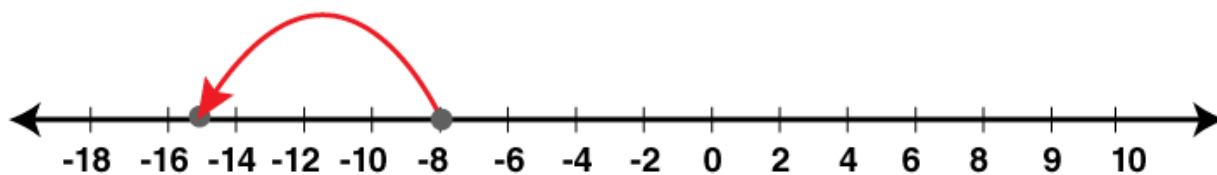


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Therefore, 7 more than 0 = 7

(vi) 7 less than -8

To get 7 less than -8, from -8 move 7 units to the left of -8 to get -15



Therefore, 7 less than -8 = -15



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