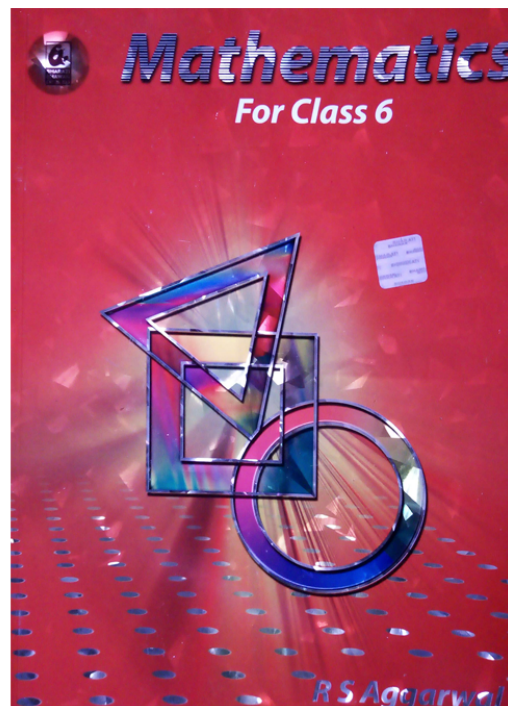


RS Aggarwal Solutions for Class 6 Maths

Chapter 4–Integers

Class 6 - Chapter 4 Integers



For any clarifications or questions you can write to info@indcareer.com

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RS Aggarwal Solutions for Class 6

Maths Chapter 4–Integers

Class 6: Maths Chapter 4 solutions. Complete Class 6 Maths Chapter 4 Notes.

RS Aggarwal Solutions for Class 6 Maths Chapter 4–Integers

RS Aggarwal 6th Maths Chapter 4, Class 6 Maths Chapter 4 solutions

Ex 4A Solutions

Question 1.

Solution:

- (i) A decrease of 8
- (ii) A gain of Rs. 7
- (iii) Loosing a weight of 5 kg
- (iv) 10 km below sea level
- (v) 5°C above the freezing point
- (vi) A withdrawal of Rs. 100
- (vii) Spending Rs. 500
- (viii) Going 6 m to the west
- (ix) -24
- (x) 34

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Question 2.**Solution:**

(i) + Rs. 600

(ii) – Rs. 800

(iii) – 7°C

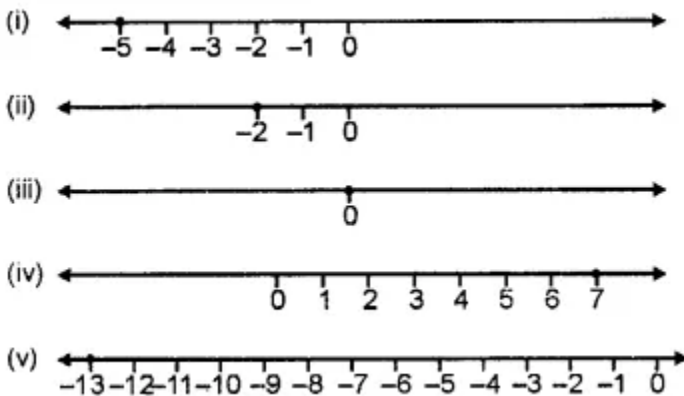
(iv) – 9

(v) + 2 km

(vi) – 3 km

(vii) + Rs. 200

(viii) – Rs. 300

Question 3.**Solution:****Question 4.****Solution:**

(i) 0

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(ii) -3

(iii) 2

(iv) 8

(v) -365

(vi) 8

Question 5.

Solution:

(i) -7

(ii) -1

(iii) -27

(iv) -26

(v) -603

(vi) -777

Question 6.

Solution:

(i) The integers between 0 and 6 are

$1, 2, 3, 4, 5$.

(ii) The integers between -5 and 0 are

$-4, -3, -2, -1$.

(iii) The integers between -3 and 3 are

$-2, -1, 0, 1, 2$.

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(iv) The integer between -7 and -5 is -6 .

Question 7.

Solution:

(i) $0 < 7$

(ii) $0 > -3$

(iii) $-5 < -2$

(iv) $-15 < 13$

(v) $-231 < -132$

(vi) $-6 < 6$

Question 8.

Solution:

(i) $-7, -2, 0, 5, 8$

(ii) $-100, -23, -6, -1, 0, 12$

(iii) $-501, -363, -17, 15, 165$

(iv) $-106, -81, -16, -2, 0, 16, 21$.

Question 9.

Solution:

(i) $36, 7, 0, -3, -9, -132$

(ii) $51, 0, -2, -8, -53$

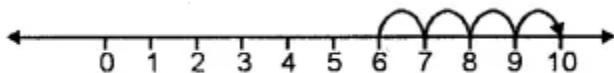
(iii) $36, 0, -5, -71, -81$

(iv) $413, 102, -7, -365, -515$.

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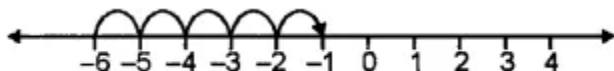
Question 10.**Solution:**

(i) We want to write an integer 4 more than 6. So, we start from 6 and proceed 4 steps to the right to obtain 10, as shown below:



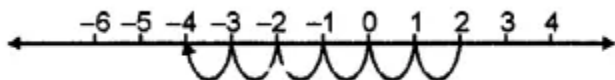
∴ 4 more than 6 is 10.

(ii) We want to write an integer 5 more than -6 . So, we start from -6 and proceed 5 steps to the right to obtain -1 , as shown below :



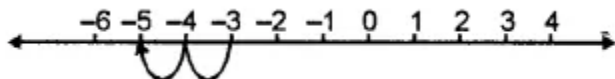
∴ 5 more than -6 is -1 .

(iii) We want to write an integer 6 less than 2. So we start from 2 and come back to the left by 6 steps to obtain -4 , as shown below:



∴ 6 less than 2 is -4 .

(iv) We want to write an integer 2 less than -3 . So we start from -3 and come back to the left by 2 steps to obtain -5 , as shown below :



∴ 2 less than -3 is -5 .

Question 11.

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Solution:

- (i) False, as zero is greater than every negative integer.
- (ii) False, as zero is an integer.
- (iii) True, as zero is neither positive nor negative.
- (iv) False, as -10 is to the left of -6 on a number line.
- (v) False, as absolute value of an integer is always equal to the integer.
- (vi) True, as 0 is to right of every negative integer, on a number line.
- (vii) False, as every natural number is positive. False, the successor is -186
- (viii) False, the predecessor is -216

Question 12.**Solution:**

- (i) $|-9| = 9$
- (ii) $|36| = 36$
- (iii) $|0| = 0$
- (iv) $|15| = 15$
- (v) $-|-3| = -3$
- (vi) $7 + |-3| = 7 + 3 = 10$
- (vii) $|7 - 4| = |3| = 3$
- (viii) $8 - |-7| = 8 - 7 = 1$

Question 13.**Solution:**

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The required integers are $-6, -5, -4, -3, -2$.

The required integers are $-21, -22, -23, -24, -25$.

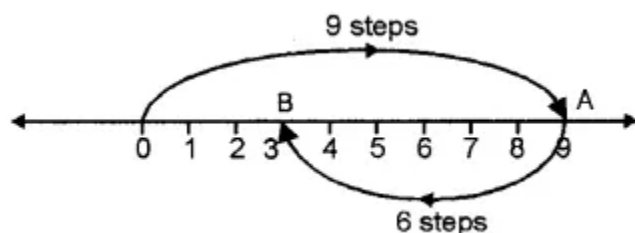
The required integers are $-21, -22, -23, -24, -25$.

Ex 4B Solutions

Question 1.

Solution:

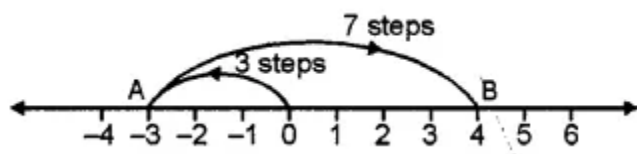
(i) On the number line we start from 0 and move 9 steps to the right to reach a point A. Now, starting from A, we move 6 steps to the left to reach a point B, as shown below :



Now, B represents the integer 3

$$9 + (-6) = 3$$

(ii) On the number line, we start from 0 and move 3 steps to the left to reach a point A. Now, starting from A, we move 7 steps to the right to reach a point B, as shown below :

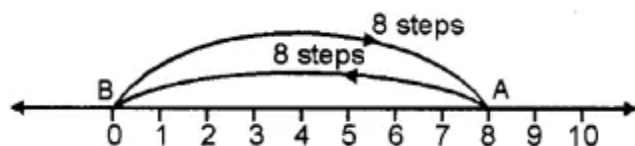


And B represents the integer 4

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

(iii) On the number line, we start from 0 and move 8 steps to the right to reach a point A. Now, starting from A, we move 8 steps to the left to reach a point B, as shown below :

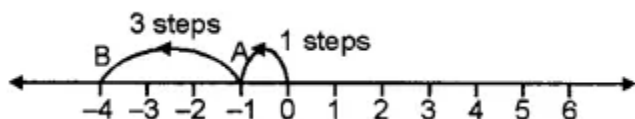
<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-6-maths-chapter-4-integers/>



And, B represents the integer 0.

$$8 + (-8) = 0$$

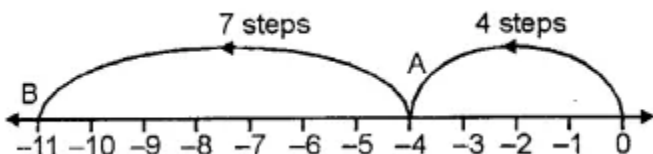
(iv) On the number line, we start from 0 and move 1 step the left to reach a point A. Now, starting from point A, we move 3 steps to the left to reach g. point B, as shown below :



And, B represents the integer -4

$$(-1) + (-3) = -4.$$

(v) On the number line, we start from 0 and move 4 steps to the left to reach a point A. Now, starting from point A, we move 7 steps to the left to reach a point B, as shown below :

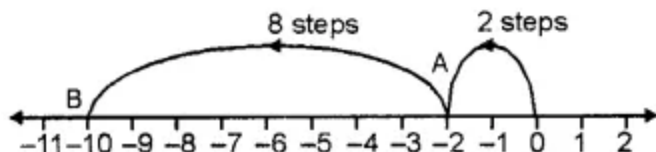


And, B represents the integer -11.

$$(-4) + (-7) = -11$$

(vi) On the number line we start from 0 and move 2 steps to the left to reach a point A. Now, starting from A, we move 8 steps to the left to reach a point B, as shown below :

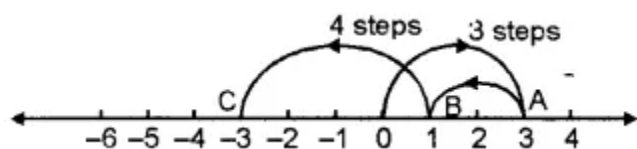
<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-6-maths-chapter-4-integers/>



And, B represents the integer -10

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

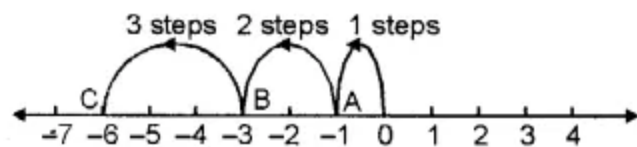
(vii) On the number line we start from 0 and move 3 steps to the right to reach a point A. Now, starting from A, we move 2 steps to the left to reach a point B and again starting from B, we move 4 steps to the left to reach a point C, as shown below :



And, C represents the integer -3

$$3 + (-2) + (-4) = -3$$

(viii) On the number line we start from 0 and move 1 step to the left to reach a point A. Now, starting from A, we move 2 steps to the left to reach a point B and again starting from B, we move 3 steps to the left to reach point C, as shown below :

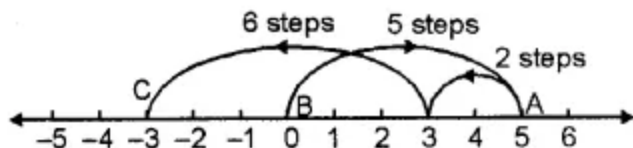


And, C represents the integer -6

$$(-1) + (-2) + (-3) = -6.$$

(ix) On the number line we start from 0 and move 5 steps to the right to reach a point A. Now, starting from A, we move 2 steps to the left to reach a point B and again starting from point B, we move 6 steps to the left to reach a point C, as shown below :

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And, C represents the integer -3 .

$$5 + (-2) + (-6) = -3$$

Question 2.

Solution:

(i) $(-3) + (-9) = -12$

(Using the rule for addition of integers having like signs)

(ii) $(-7) + (-8) = -15$

(Using the rule for addition of integers having like signs)

(iii) $(-9) + 16 = 7$

(Using the rule for addition of integers having unlike signs)

(iv) $(-13) + 25 = 12$

(Using the rule for addition of integers having unlike signs)

(v) $8 + (-17) = -9$

(Using the rule for addition of integers having unlike signs)

(vi) $2 + (-12) = -10$

(Using the rule for addition of integers having unlike signs)

Question 3.

Solution:

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-6-maths-chapter-4-integers/>

(i) Using the rule for addition of integers with like signs, we get:

$$\begin{array}{r} -365 \\ -87 \\ \hline -452 \end{array}$$

(ii) Using the rule for addition of integers with like signs, we get :

$$\begin{array}{r} -73 \\ -687 \\ \hline -760 \end{array}$$

(iii) Using the rule for addition of integers with like signs, we get :

$$\begin{array}{r} -1065 \\ -987 \\ \hline -2052 \end{array}$$

(iv) Using the rule for addition of integers with like signs, we get:

$$\begin{array}{r} -3596 \\ -1089 \\ \hline -4685 \end{array}$$

Question 4.

Solution:

(i) Using the rule for addition of integers with unlike signs, we get:

$$\begin{array}{r} -206 \\ +98 \\ \hline -108 \end{array}$$

(ii) Using the rule for addition of integers with unlike signs, we get:

$$\begin{array}{r} +178 \\ -69 \\ \hline 109 \end{array}$$

(iii) Using the rule for addition of integers with unlike signs, we have

$$\begin{array}{r} -103 \\ +312 \\ \hline 209 \end{array}$$

(iv) Using the rule for addition of integers with unlike signs, we have

$$\begin{array}{r} -493 \\ +289 \\ \hline -204 \end{array}$$

Question 5.

Solution:

(i) Using the rule for addition of integers with unlike signs, we get :

$$\begin{array}{r} +137 \\ -354 \\ \hline -217 \end{array}$$

$\therefore 137 + (-354) = -217$

(ii) Using-the rule for addition of integers with unlike signs, we get

$$\begin{array}{r} + 1001 \\ - 13 \\ \hline 988 \end{array}$$

$$\therefore 1001 + (-13) = 988$$

(iii) Using the rule for addition of integers with unlike signs, we get :

$$\begin{array}{r} - 3057 \\ + 199 \\ \hline - 2858 \end{array}$$

$$\therefore (-3057) + 199 = -2858$$

(iv) Using the rule for addition of integers with unlike signs, we get :

$$\begin{array}{r} - 36 \\ + 1027 \\ \hline 991 \end{array}$$

$$\therefore (-36) + 1027 = 991$$

(v) Using the rule for addition of integers with like signs, we get:

$$\begin{array}{r} - 389 \\ - 1032 \\ \hline - 1421 \end{array}$$

$$\therefore (-389) + (-1032) = -1421$$

(vi) Using the rule for addition of integers with unlike signs, we get :

$$\begin{array}{r} - 36 \\ + 100 \\ \hline + 64 \end{array}$$

$$\therefore (-36) + 100 = 64$$

(vii) Using the rule for addition of integers with unlike signs, we get :

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$$\begin{array}{r} +3002 \\ -888 \\ \hline +2114 \end{array}$$

$$\therefore 3002 + (-888) = 2114$$

(viii) We have, $(-18) + 25 + (-37)$

$$= [(-18) + 25] + (-37)$$

$$= 7 + (-37)$$

$$= -30$$

(ix) We have, $-312 + 39 + 192$

$$= (-312) + (39 + 192)$$

$$= (-312) + 231$$

$$= -81$$

(x) We have $(-51) + (-203) + 36 + (-28)$

$$= [(-51) + (-203)] + [36 + (-28)]$$

$$= (-254) + 8$$

$$= -246$$

Question 6.

Solution:

(i) The additive inverse of -57 is 57

(ii) The additive inverse of 183 is -183

(iii) The additive inverse of 0 is 0

(iv) The additive inverse of -1001 is 1001

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(v) The additive inverse of 2054 is -2054

Question 7.

Solution:

(i) Successor of 201 $= 201 + 1 = 202$

(ii) Successor of 70 $= 70 + 1 = 71$

(iii) Successor of $-5 = -5 + 1 = -4$

(iv) Successor of $-99 = -99 + 1 = -98$

(v) Successor of $-500 = -500 + 1 = -499$ Ans.

Question 8.

Solution:

(i) Predecessor of 120 $= 120 - 1 = 119$

(ii) Predecessor of 79 $= 79 - 1 = 78$

(iii) Predecessor of $-8 = -8 - 1 = -9$

(iv) Predecessor of $-141 = -141 - 1 = -142$

(v) Predecessor of $-300 = -300 - 1 = -301$ Ans.

Question 9.

Solution:

(i) $(-7) + (-9) + 12 + (-16)$

$$= -7 - 9 + 12 - 16$$

$$= -7 - 9 - 16 + 12$$

$$= -32 + 12$$

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$$= -20$$

$$(ii) 37 + (-23) + (-65) + 9 + (-12)$$

$$= 37 - 23 - 65 + 9 - 12$$

$$= 37 + 9 - 23 - 65 - 12$$

$$= 46 - 100$$

$$= -54$$

$$(iii) (-145) + 79 + (-265) + (-41) + 2$$

$$= -145 + 79 - 265 - 41 + 2$$

$$= 79 + 2 - 145 - 265 - 41$$

$$= 81 - 451$$

$$= -370$$

$$(iv) 1056 + (-798) + (-38) + 44 + (-1)$$

$$= 1056 - 798 - 38 + 44 - 1$$

$$= 1056 + 44 - 798 - 38 - 1$$

$$= 1100 - 837$$

$$= 263 \text{ Ans.}$$

Question 10.

Solution:

Distance travelled from Patna to its north = 60 km

Distance travelled from that place to south of it = 90 km

Distance of the final place to Patna = 60 - 90

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$$= - 30 \text{ km}$$

$$= 30 \text{ km south}$$

Ans.

Question 11.

Solution:

Total amount of pencils purchased = Rs. 30 + Rs. 25

$$= \text{Rs } 55$$

Total amount of pens purchased = Rs. 90

Total cost price = Rs. 55 + Rs. 90

$$= \text{Rs. } 145$$

Total sale price of pencils and pens = Rs 20 + Rs. 70

$$= \text{Rs. } 90$$

Loss = cost price – selling price

$$= \text{Rs. } 145 - \text{Rs. } 90$$

$$= \text{Rs. } 55 \text{ Ans.}$$

Question 12.

Solution:

(i) True.

(ii) False : As if positive integer is greater then it will be positive.

(iii) True : As $(-a + a = 0)$.

(iv) False : As the sum of three integers can be zero or non-zero.

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(v) False : As $|-5| = 5$ and $|-3| = 3$ and $5 \not< 3$.

(vi) False : $|8 - 5| = |3| = 3$ and $|8| + |-5| = 8 + 5 = 13$.

Question 13.

Solution:

(i) $a + 6 = 0$

Subtracting 6 from both sides,

$$a + 6 - 6 = 0 - 6$$

$$\Rightarrow a = -6$$

$$a = -6.$$

(ii) $5 + a = 0$

Subtracting 5 from both sides,

$$5 + a - 5 = 0 - 5$$

$$\Rightarrow a = -5$$

$$a = -5$$

(iii) $a + (-4) = 0$

Adding 4 to both sides,

$$a + (-4) + 4 = 0 + 4$$

$$\Rightarrow a = 4$$

$$a = 4$$

(iv) $-8 + a = 0$

Adding 8 to both sides,

$$-8 + a + 8 = 0 + 8$$

$$\Rightarrow a - 8$$

$$a = 8 \text{ Ans.}$$

Ex 4C Solutions

Question 1.

Solution:

(i) We have : $-34 - 18 = -52$

(ii) We have : $25 - (-15) = 25 + 15 = 40$

(iii) We have : $-43 - (-28) = -43 + 28 = -15$

(iv) We have : $(-37) - 68 = (-37) + (-68) = -105$

(v) We have : $0 - 219 = 0 + (-219) = -219$

(vi) We have : $0 - (-92) = 0 + 92 = 92$

(vii) We have : $-250 - (-135) = (-250) + 135 = -115$

(viii) We have : $-287 - (-2768) = (-287) + 2768 = 2481$

(ix) We have: $-271 - 6240 = (-271) + (-6240) = -6511$

(x) We have : $6250 - (-3012) = 6250 + 3012 = 9262$

Question 2.

Solution:

The sum of -1050 and 813 .

$$= (-1050) + 813 = -237$$

$$\text{Required number} = -23 - (-237)$$

$$= (-23) + 237 = 214$$

Question 3.**Solution:**

The sum of -250 and 138

$$= (-250) + 138 = -112$$

The sum of 136 and -272

$$= 136 + (-272) = -136$$

Required number $= -136 - (-112)$

$$= (-136) + 112 = -24$$

Question 4.**Solution:**

The sum of 33 and -47

$$= 33 + (-47)$$

$$= -14$$

Required number $= -14 - (-84)$

$$= (-14) + 84$$

$$= 70$$

Question 5.**Solution:**

The difference of -8 and -68

$$= -8 - (-68)$$

$$= (-8) + 68 = 60$$

$$\text{Required sum} = 60 + (-36)$$

$$= 24$$

Question 6.**Solution:**

(i) We have :

$$[37 - (-8)] + [11 - (-30)]$$

$$= (37 + 8) + (11 + 30)$$

$$= 45 + 41$$

$$= 86$$

$$(ii) [-13 - (-17)] + [-22 - (-40)]$$

$$= (-13 + 17) + (-22 + 40)$$

$$= 4 + 18$$

$$= 22$$

Question 7.**Solution:**

We have :

$$34 - (-72) = 34 + 72 = 106 \text{ and } (-72) - 34 = (-72) + (-34)$$

$$= -106$$

Clearly, $34 - (-72)$ and $(-72) - 34$ are not equal.

Question 8.

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Solution:

The sum of two integers = -13

One number = 170

The other number = $-13 - 170$

$$= (-13) + (-170)$$

$$= -183$$

Question 9.**Solution:**

The sum of two integers = 65

One number = -47

The other number = $65 - (-47)$

$$= 65 + 47$$

$$= 112$$

Question 10.**Solution:**

(i) True

(ii) True

(iii) The given statement is

$$-14 > -8 - (-7)$$

$$-14 > -8 + 7$$

$-14 > -1$ which is not true.

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(iv) The given statement is $-5 - 2 > -8$

$$(-5) + (-2) > -8$$

$$-7 > -8 \text{ which is true}$$

The given statement is true.

(v) The given statement is $(-7) - 3 = (-3) - (-7)$

$$(-7) + (-3) = (-3) + 7$$

$$-10 = 4$$

which is not true.

The given statement is false.

Question 11.

Solution:

The vertical distance between A and B = Distance of point A above sea level + distance of point B below sea level.

$$= 5700 \text{ m} + 39600 \text{ m}$$

$$= 45300 \text{ m.}$$

The required distance between A and B

$$= 45300 \text{ metres.}$$

Question 12.

Solution:

Temperature at 6 p.m. = 1°C

Temperature at mid-night = -4°C

Required temperature fall = $1^{\circ}\text{C} - (-4^{\circ}\text{C})$

= $1^{\circ}\text{C} + 4^{\circ}\text{C}$

= 5°C .

Ex 4D Solutions

Question 1.

Solution:

(i) 15 by 9 = $15 \times 9 = 135$

(ii) 18 by $-7 = 18 \times (-7) = -126$

(iii) 29 by $-11 = 29 \times (-11) = -319$

(iv) -18 by 13 = $(-18) \times 13 = -234$

(v) -56 by 16 = $(-56) \times 16 = -896$

(vi) 32 by $-21 = 32 \times (-21) = -672$

(vii) $-57 \times 0 = (-57) \times 0 = 0$

(viii) 0 by $-31 = 0 \times (-31) = 0$

(ix) -12 by $-9 = (-12) \times (-9) = 108$

(x) -746 by $-8 = (-746) \times (-8) = 5968$

(xi) 118 by $-7 = 118 \times (-7) = -826$

(xii) -238 by $-143 = (-238) \times (-143) = 238 \times 143 = 34034$

$$\begin{array}{r} 238 \\ 143 \\ \hline 714 \\ 9520 \\ 23800 \\ \hline 34034 \end{array}$$

Question 2.**Solution:**

$$(i) (-2) \times 3 \times (-4) = [(-2) \times 3] \times (-4) = (-6) \times (-4) = 24$$

$$(ii) 2 \times (-5) \times (-6) = 2 \times [(-5) \times (-6)] = 2 \times 30 = 60$$

$$(iii) (-8) \times 3 \times 5 = (-8) \times (3 \times 5) = (-8) \times 15 = -120$$

$$(iv) 8 \times 7 \times (-10) = (8 \times 7) \times (-10) = 56 \times (-10) = -560$$

$$(v) (-3) \times (-7) \times (-6) = [(-3) \times (-7)] \times (-6) = 21 \times (-6) = -126$$

$$(vi) (-8) \times (-3) \times (-9) = (-8) \times [(-3) \times (-9)] = (-8) \times 27 = -216$$

Question 3.**Solution:**

$$(i) 18 \times (-27) \times 30 = 18 \times [(-27) \times 30] = 18 \times (-810) = -14580$$

$$(ii) (-8) \times (-63) \times 9 = [(-8) \times (-63)] \times 9 = 504 \times 9 = 4536$$

$$(iii) (-17) \times (-23) \times 41 = [(-17) \times (-23)] \times 41 = 391 \times 41 = 16031$$

$$\begin{array}{r} 391 \\ \times 41 \\ \hline 391 \\ 15640 \\ \hline 16031 \end{array}$$

$$(iv) (-51) \times (-47) \times (-19) = [(-51) \times (-47)] \times (-19) = 2397 \times (-19) = -45543$$

$$\begin{array}{r} 2397 \\ \times 19 \\ \hline 21573 \\ 23970 \\ \hline 45543 \end{array}$$

Question 4.**Solution:**

(i) We have :

$$18 \times [9 + (-7)] = 18 \times 2 = 36$$

$$18 \times 9 + 18 \times (-7)$$

$$= (18 \times 9) + [18 \times (-7)]$$

$$= 162 - 126$$

$$= 36$$

$$18 \times [9 + (-7)] = 18 \times 9 + 18 \times (-7) \text{ is verified.}$$

(ii) We have :

$$(-13) \times [(-6) \times (-19)]$$

$$= (-13) \times (-25) = 325$$

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$$(-13) \times (-6) + (-13) \times -9$$

$$= [(-13) \times (-6)] + [(-13) \times (-9)]$$

$$= 78 + 247 = 325$$

$$(-13) \times [(-6) + (-9)]$$

$$= (-13) \times (-6) + (-13) \times (-9) \text{ is verified.}$$

Question 5.**Solution:**

The complete multiplication table is given below

X	-3	-2	-1	0	1	2	3
-3	9	6	3	0	-3	-6	-9
-2	6	4	2	0	-2	-4	-6
-1	3	2	1	0	-1	-2	-3
0	0	0	0	0	0	0	0
1	-3	-2	-1	0	1	2	3
2	-6	-4	-2	0	2	4	6
3	-9	-6	-3	0	3	6	9

Question 6.**Solution:**

(i) True

(ii) False

(iii) True

(iv) True

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Question 7.**Solution:**

$$(i) (-9) \times 6 + (-9) \times 4$$

$$= (-9) \times (6 + 4)$$

(By distributive law)

$$= (-9) \times 10$$

$$= -90$$

$$(ii) 8 \times (-12) + 7 \times (-12)$$

$$= (8 + 7) \times (-12)$$

(By distributive law)

$$= 15 \times (-12)$$

$$= -180$$

$$(iii) 30 \times (-22) + 30 \times (14)$$

$$= 30 \times [(-22) + 14]$$

(By distributive law)

$$= 30 \times (-8)$$

$$= -240$$

$$(iv) (-15) \times (-14) + (-15) \times (-6)$$

$$= (-15) \times [(-14) + (-6)]$$

(By distributive law)

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

$$= 300$$

$$(v) 43 \times (-33) + 43 \times (-17)$$

$$= 43 \times [(-33) + (-17)]$$

(By distributive law)

$$= 43 \times (-50) = -2150$$

$$(vi) (-36) \times 72 + (-36) \times 28$$

$$= (-36) \times (72 + 28)$$

(By distributive law)

$$= (-36) \times 100$$

$$= -3600$$

$$(vii) (-27) \times (-16) + (-27) \times (-14)$$

$$= (-27) \times [(-16) + (-14)]$$

(By distributive law)

$$= (-27) \times (-30)$$

$$= 810$$

Ex 4E Solutions

Question 1.

Solution:

$$(i) 85 \div (-17) = 85-17 = -5$$

$$(ii) (-72) \div 18 = -7218 = -4$$

$$(iii) (-80) \div 16 = -8016 = -5$$

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$$(iv) (-121) \div 11 = -12111 = -11$$

$$(v) 108 \div (-12) = 108-12 = -9$$

$$(vi) (-161) \div 23 = -16123 = -7$$

$$(vii) (-76) \div (-19) = -76-19 = 4$$

$$(viii) (-147) + (-21) = -147-21 = 7$$

$$(ix) (-639) \div (-71) = -639-71 = 9$$

$$(x) (-15625) \div (-125) = -15625-125$$

$$\begin{array}{r} 125 \overline{) 15625} \quad 125 \\ \underline{125} \\ 312 \\ \underline{250} \\ 625 \\ \underline{625} \\ 0 \end{array}$$

$$\therefore (-15625) \div (-125) = 125$$

$$(xi) 2067 \div (-1) = 2067-1 = -2067$$

$$(xii) 1765 \div (-1765) = 1765-1765 = -1$$

$$(xiii) 0 \div (-278) = 0-278 = 0$$

$$(xiv) 3000 \div (-100) = 3000-100 = -30$$

Question 2.

Solution:

$$(i) 80 \div (\dots) = -5$$

$$\text{Let } 80 \div a = -5$$

$$\text{then, } a = 80 \div (-5) = -16$$

$$80 \div (-16) = -5$$

$$(ii) -84 + (\dots) = -7$$

$$\text{Let } -84 \div a = -7$$

$$\text{then } a = -84 \div -7 = 12$$

$$-84 \div 12 = -7$$

$$(iii) (\dots) \div (-5) = 25$$

$$\text{Let } a \div (-5) = 25$$

$$a = 25 \times (-5) = -125$$

$$(-125) \div (-5) = 25$$

$$(iv) (\dots) \div 372 = 0$$

$$\text{Let } a \div 372 = 0$$

$$\text{Then } a = 0 \times 372 = 0$$

$$(0) \div 372 = 0$$

$$(v) (\dots) \div 1 = -186$$

$$\text{Let } a \div 1 = -186$$

$$\text{Then } a = -186 \times 1 = -186$$

$$(-186) \div 1 = -186$$

$$(vi) (\dots) \div 17 = -2$$

$$\text{Let } a \div 17 = -2$$

$$\text{Then } a = -2 \times 17 = -34$$

$$(-34) \div 17 = -2$$

(vii) $(....) \div 165 = -1$

Let $a \div 165 = -1$

Then $a = -1 \times 165 = -165$

$(-165) \div 165 = -1$

(viii) $(....) + (-1) = 73$

Let $a \div (-1) = 73$

Then $a = 73 (-1) = -73$

$(-73) + (-1) = 73$

(ix) $1 \div (.....) = -1$

Let $1 \div (a) = -1$

Then $a = -1 \times 1 = -1$

$1 \div (-1) = -1$ Ans.

Question 3.

Solution:

(i) True : as if zero is divided by any non-zero integer, then quotient is always zero.

(ii) False : As division by zero is not admissible.

(iii) True : As dividing by one integer by another having opposite signs is negative.

(iv) False : As dividing one integer by another having the same signs is positive not negative.

(v) True : As dividing one integer by another with same sign is always positive.

(vi) True : As dividing one integer by another having opposite signs is always negative.

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(vii) True : As dividing one integer by another having opposite signs is always negative.

(viii) True : As dividing one integer by another having opposite signs is always negative.

(ix) False : As dividing one integer by another having same signs is always positive not negative

Ex 4F Solutions

OBJECTIVE QUESTIONS

Tick the correct answer in each of the following :

Question 1.

Solution:

(b) Because $-4 < -3$.

Question 2.

Solution:

Because $-3 - 2 = -5$.

Question 3.

Solution:

(c) Because $4 + (-5) = -1$.

Question 4.

Solution:

(a) Because $-7 - 2 = -9$.

Question 5.

Solution:

(b) Because $7 + |-3| = 7 + 3 = 10$.

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Question 6.**Solution:**

(c) Because $-42 + (-35) = -42 - 35 = -77$.

Question 7.**Solution:**

(b) Because $(-37) + 6 = -31$.

Question 8.**Solution:**

(c) Because $49 + (-27) = 49 - 27 = 22$.

Question 9.**Solution:**

(c) Because successor of $-18 = -18 + 1 = -17$.

Question 10.**Solution:**

(b) Because predecessor of -16 is $-16 - 1 = -17$.

Question 11.**Solution:**

(a) Because additive inverse of -5 is $-(-5) = 5$.

Question 12.**Solution:**

(b) Because $-12 - (-5) = -12 + 5 = -7$

Question 13.**Solution:**

(b) Because $5 - (-8) = 5 + 8 = 13$.

Question 14.**Solution:**

(c) Because other $-25 - 30 = -55$.

Question 15.**Solution:**

(a) Because other $20 - (-5) = 20 + 5 = 25$.

Question 16.**Solution:**

(b) Because other $-13 - 8 = -21$.

Question 17.**Solution:**

(b) Because $0 - (-8) = 0 + 8 = 8$

Question 18.**Solution:**

(c) Because $8 + (-8) = 8 - 8 = 0$.

Question 19.**Solution:**

(c) Because $-6 + 4 - (-3) = -6 + 4 + 3 = 7 - 6 = 1$.

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Question 20.

Solution:

(c) Because $6 - (-4) = 6 + 4 = 10$.

Question 21.

Solution:

(a) Because $(-7) + (-9) + 12 + (-16) = -7 - 9 + 12 - 16 = -32 + 12 = -20$.

Question 22.

Solution:

(c) Because $-4 - (8) = -4 - 8 = -12$.

Question 23.

Solution:

(c) Because $-6 - (-9) = -6 + 9 = 3$.

Question 24.

Solution:

(c) Because $10 - (-5) = 10 + 5 = 15$.

Question 25.

Solution:

(b) Because $(-6) \times 9 = 54$.

Question 26.

Solution:

(a) Because $(-9) \times 6 + (-9) \times 4$

$$= -54 - 36 = -90.$$

Question 27.

Solution:

(b) Because $36 + (-9) = 36 - 9 = -4$.



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- Chapter 2–Factors and Multiples
- Chapter 3–Whole Numbers
- Chapter 4–Integers
- Chapter 5–Fractions
- Chapter 6–Simplification
- Chapter 7–Decimals
- Chapter 8–Algebraic Expressions
- Chapter 9–Linear Equations in One Variable
- Chapter 10–Ratio, Proportion and Unitary Method
- Chapter 11–Line Segment, Ray and Line
- Chapter 12–Parallel Lines
- Chapter 13–Angles and Their Measurement
- Chapter 14–Constructions (Using Ruler and a Pairs of Compasses)
- Chapter 15–Polygons
- Chapter 16–Triangles
- Chapter 17–Quadrilaterals
- Chapter 18–Circles
- Chapter 19–Three-Dimensional Shapes
- Chapter 20–Two-Dimensional Reflection Symmetry (Linear Symmetry)
- Chapter 21–Concept of Perimeter and Area
- Chapter 22–Data Handling
- Chapter 23–Pictograph
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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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