



MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

INTEGERS

Solved Examples

1. Using the number line , write the integer which is :

(i) 3 more than 5

(ii) 4 more than - 1

(iii) 5 less than 3

(iv) 2 less than - 3



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2. Fill in the blanks by the appropriate symbol ' > ' or ' < ' in each of the following cases :

(i) $0 \dots\dots 3$ (ii) $-4 \dots\dots 0$ (iii) $-9 \dots\dots -15$

(iv) $-37 \dots\dots 17$ (v) $-10 \dots\dots 10$ (iv) $-163 \dots\dots -236$

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3. Add $+7$ and -4 and show on the number line .

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4. Add $+3$ and -8 and show on the number line.

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5. Add -3 and -6 show on the number line.

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6. Add the following integers :

(i) $+27$ and $+19$ (ii) -42 and -35



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7. Add the integers -5928 and -965 .

A. -6893

B. -4963

C. 4963

D. 6893

Answer: A



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8. Add :

(i) $- 36 + 19$

(ii) $49 + (- 27)$

A. (i) $- 17$

(ii) 77

B. (i) $- 16$

(ii) 12

C. (i) $- 17$

(ii) 22

D. (i) 55

(ii) 22

Answer: C



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9. Add : $(-2055) + 679$.

A. -2376

B. -1376

C. -3376

D. -5376

Answer: B



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10. Add : $(-236) + (573)$.



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11. Find the sum of -8 , 23 , -32 , -17 and -63 .



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12. Find an integer a such that

(i) $2 + a = 0$

(ii) $a + (-6) = 0$



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13. Subtract :

(i) 7 from 2 (ii) -8 from 5 (iii) 4 from -9

(iv) -7 from -5



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14. Subtract :

(i) -2459 from 5128

(ii) -1040 from -687

(iii) 347 from -58

(v) -728 from 0



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15. The sum of two integers is -27 . If one of them is 260 , find the other.

A. -297

B. -277

C. -266

D. -256

Answer: A



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16. Find each of the following products :

(i) $36x(-17)$

(ii) $(-81)x15$

(iii) $(-23)x(-9)$

(iv) $(-18)x(-21)$



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17. Simplify :

(i) $8x(-13) + 8x9$

(ii) $(-12)x7 + (-12)x(-4)$

(iii) $9x(-16) + (-12)x(-16)$

(iv) $10x(-31) + 10x(-9)$



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18. Divide :

(i) (-115) by 23

(ii) 168 by (-7)

(iii) (-272) by (-16)

(iv) (-324) by (-27)



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19. Fill in the blanks :

(i) $-273 \div \dots = 1$

(ii) $\dots \div 137 = -2$

(iii) $\dots \div 238 = 0$

(iv) $\dots \div (-13) = -5$



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Exercise 4 A

1. Write the opposite of each of the following :

(i) An increase of 8 (ii) A loss of Rs. 7

(iii) Gaining a weight of 5 kg (iv) 10 km above sea level

(v) $5^{\circ}C$ below the freezing point (vi) A deposit of Rs. 100

(vii) Earning Rs. 500 (viii) Going 6 m to the east

(ix) 24 (x) -34



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2. Indicate the following using ' + ' or ' - ' sign :

(i) A gain of Rs. 600 (ii) A loss of Rs. 800

(iii) $7^{\circ}C$ below the freezing point (iv) Decrease of 9

(v) 2 km above sea level (vi) 3 km below sea level

(vii) A deposit of Rs. 200 (viii) A withdrawal of Rs. 300



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3. Mark the following integers on a number line :

(i) -5 (ii) -2 (iii) 0

(iv) 7 (v) -13



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4. Which number is larger in each of the following pairs ?

(i) $0, -2$

(ii) $-3, -5$

(iii) $-5, 2$

$$(iv) - 16, 8$$

$$(v) - 365, - 913$$

$$(vi) - 888, 8$$



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5. Which number is smaller in each of the following pairs ?

$$(i) 6, - 7$$

$$(ii) 0, - 1$$

$$(iii) - 13, - 27$$

$$(iv) - 26, 17$$

$$(v) - 317, - 603$$

$$(vi) - 777, 7$$



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6. Write all integers between

$$(i) 0 \text{ and } 6$$

$$(ii) - 5 \text{ and } 0$$

(iii) -3 and 3

(iv) -7 and -5



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7. Fill in the blanks by appropriate symbol $>$ or $<$:

(i) $0 \dots\dots\dots 7$

(ii) $0 \dots\dots\dots -3$

(iii) $-5 \dots\dots\dots -2$

(iv) $-15 \dots\dots\dots 13$ (v) $-231 \dots\dots\dots -132$ (vi) $-6 \dots\dots\dots 6$



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8. Write the following integers in the increasing order :

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

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

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

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



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9. Write the following integers in the decreasing order :

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

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

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

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

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10. Using the number line, write the integer which is

(i) 4 more than 6 (ii) 5 more than - 6

(iii) 6 less than 2 (iv) 2 less than - 3

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11. For each of the following statements , write (T) for true and (F) for false :

(i) The smallest integer is zero .

(ii) Zero is not an integer .

(iii) The opposite of zero is zero .

(iv) -10 is greater than -6 .

(v) The absolute value of an integer is always greater than the integer.

(vi) 0 is larger than every negative integer.

(vii) Every negative integer is less than every natural number.

(viii) The successor of -187 is -188 .

(ix) The predecessor of -215 is -214 .



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12. Find the value of

(i) $|-9|$ (ii) $|-36|$ (iii) $|0|$ (iv) $|15|$

(v) $-|-3|$ (vi) $7 + |-3|$ (vii) $|7 - 4|$ (viii) $8 - |-7|$



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13. (i) Write five negative integers greater than -7 .

(ii) Write five negative integers less than -20 .



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Exercise 4 B

1. Use the number line and add the following integers :

(i) $9 + (-6)$ (ii) $(-3) + 7$ (iii) $8 + (-8)$

(iv) $(-1) + (-3)$ (v) $(-4) + (-7)$ (vi) $(-2) + (-8)$

(vii) $3 + (-2) + (-4)$ (viii) $(-1) + (-2) + (-3)$ (ix) $5 + (-$



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2. Fill in the blanks :

(i) $(-3) + (-9) = \dots\dots\dots$

(ii) $(-7) + (-8) = \dots\dots\dots$

(iii) $(-9) + 16 = \dots\dots\dots$

$$(iv) (-13) + 25 = \dots$$

$$(v) 8 + (-17) = \dots$$

$$(vi) 2 + (-12) = \dots$$



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3. Add :

$$\begin{array}{r} (i) \quad - 365 \\ \quad - 87 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} (ii) \quad - 73 \\ \quad - 687 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} (iii) \quad - 1065 \\ \quad - 987 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} (iv) \quad - 3596 \\ \quad - 1089 \\ \hline \\ \hline \end{array}$$



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4. Add :

$$\begin{array}{r} \text{(i)} \quad - 206 \\ \quad + 98 \\ \hline \hline \end{array}$$

$$\begin{array}{r} \text{(ii)} \quad + 178 \\ \quad - 69 \\ \hline \hline \end{array}$$

$$\begin{array}{r} \text{(iii)} \quad - 103 \\ \quad + 312 \\ \hline \hline \end{array}$$

$$\begin{array}{r} \text{(iv)} \quad - 493 \\ \quad + 289 \\ \hline \hline \end{array}$$

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5. Find the sum of

(i) 137 and $- 354$ (ii) 1001 and $- 13$

(iii) $- 3057$ and 199 (iv) $- 36$ and 1027

(v) $- 389$ and $- 1032$ (vi) $- 36$ and 100

(vii) 3002 and $- 888$ (viii) $- 18$, $+ 25$ and $- 37$

(ix) $- 312$, 29 and 192 (x) $- 51$, $- 203$, 36 and $- 28$

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6. Find the additive inverse of

(i) -57 (ii) 183 (iii) 0

(iv) -1001 (v) 2054



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7. Write the successor of each one of the following :

(i) 201 (ii) 70 (iii) -5

(iv) -99 (v) -500



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8. Write the predecessor of each one of the following :

(i) 120 (ii) 79 (iii) -8

(iv) -141 (v) -300



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9. Simplify :

$$(i) (-7) + (-9) + 12 + (-16) \quad (ii) 37 + (-23) + (-65) + 9 + (-10)$$

$$(iii) (-145) + 79 + (-265) + (-41) + 2 \quad (iv) 1056 + (-798) + (-100)$$



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10. A car travelled 60 km to the north of Patna and then 90 km to south from there. How far from Patna was the car finally ?



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11. A man bought some pencils for Rs 30 and some pens for Rs. 90 . The next day he again bought some pencils for Rs. 25. Then , he sold all the pencils for Rs. 20 and the pens for Rs. 70 . What was his net gain or loss ?



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12. For each of the following statements write (T) for true and (F) for false

:

(i) The sum of two negative integers is always a negative integer.

(ii) The sum of a negative integer and a positive integer is always a negative integer.

(iii) The sum of an integer and its negative is zero.

(iv) The sum of three different integers can never be zero.

(v) $|-5| < |-3|$

(vi) $|8 - 5| = |8| + |-5|$



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13. Find an integer a such that

(i)

$$a + 6 = 0 \quad (ii) 5 + a = 0 \quad (iii) a + (-4) = 0 \quad (iv) -8 + a = 0$$



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Exercise 4 C

1. Subtract :

(i) 18 from -34 (ii) -15 from 25 (iii) -28 from -43

(iv) 68 from -37 (v) 219 from 0 (vi) -92 from 0

(vii) -135 from -250 (viii) -2768 from -287 (ix) 6240 from -271

(x) -3012 from 6250



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2. Subtract the sum of -1050 and 813 from -23 .

A. 215

B. 216

C. 213

D. 214

Answer: D

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3. Subtract the sum of -250 and 138 from the sum of 136 and -272 .

A. -14

B. -34

C. -24

D. -44

Answer: C

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4. From the sum of 33 and -47 , subtract -84 .

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5. Add -36 to the difference of -8 and -68 .

A. -96

B. 24

C. -24

D. None of these

Answer: B



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6. Simplify :

(i) $[37 - (-8)] + [11 - (-30)]$ (ii) $[-13 - (-17)] + [-22 - (-4)]$



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7. Find $34 - (-72)$ and $(-72) - 34$. Are they equal ?



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8. The sum of two integers is -13 . If one of the numbers is 170 . Find the other .

A. -173

B. -183

C. -193

D. -163

Answer: B



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9. The sum of two integers is 65 . If one of the integers is -47 . Find the other.

A. 312

B. 412

C. 112

Answer: C

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10. Which of the following statements are true and which are false ?

(i) The sum of two integers is always an integer.

(ii) The difference of two integers is always an integer.

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

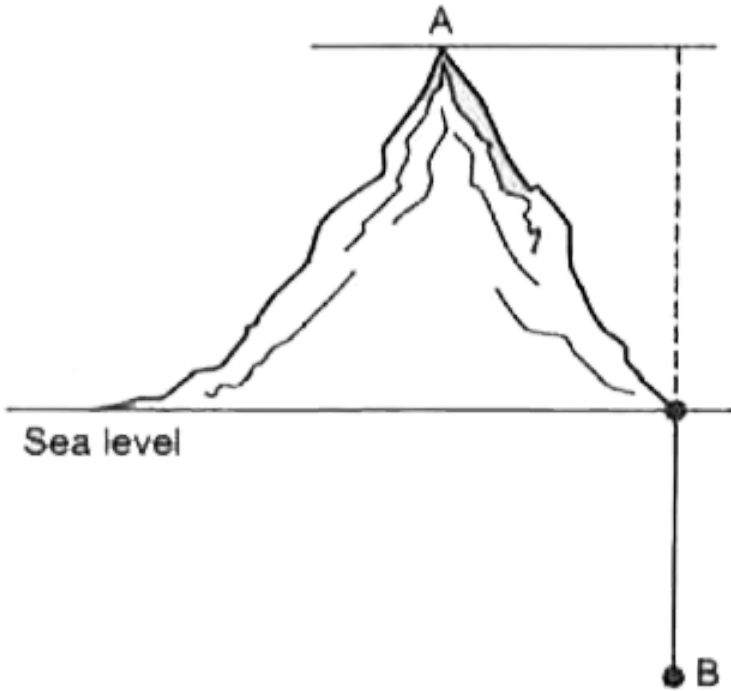
(iv) $-5 - 2 > -8$

(v) $(-7) - 3 = (-3) - (-7)$

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11. The point A is on a mountain which is 5,700 metres above sea level and the point B is in a mine which is 39,600 meters below sea level. Find

the vertical distance between A and B.



- A. 42, 300m
- B. 45, 300m
- C. 46, 300m
- D. 45, 500m

Answer: B



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12. On a day in Srinagar, the temperature at 6 p.m. was $1^{\circ}C$ but at midnight that day . It dropped to $-4^{\circ}C$. By how many degrees Celstus did the temperature fall ?

A. $-5^{\circ}C$

B. $3^{\circ}C$

C. $-3^{\circ}C$

D. $5^{\circ}C$

Answer: C



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Exercise 4 D

1. Multiply :

(i) 15 by 9(ii) 18 by -7 (iii) 29 by -11 (iv) -18 by 13

(v) -56 by $16(vi)32$ by $-21(vii) - 57$ by $0(viii)0$ by -31

(ix)

-12 by $-9(x) - 746$ by $-8(\xi)118$ by $-7(\xi ii) - 238$ by -143



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2. Find the products :

(i)

$(-2) \times 3 \times (-4)$ $(ii) 2 \times (-5) \times (-6)$ $(iii) (-8) \times 3 \times 5$

$(iv) 8 \times 7 \times (-10)$ $(v) (-3) \times (-7) \times (-6)$



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3. Use convenient groupings and find the values of

(i) $18 \times (-27) \times 30$

(ii) $(-8) \times (-63) \times 9$ $(iii) (-17) \times (-23) \times 41$ $(iv) (-51) \times (-47) \times (-19)$



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4. Verify the following :

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

(ii)

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



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5. Complete the following multiplication table :

\times	-3	-2	-1	0	1	2	3
-3							
-2							
-1							
0							
1							
2							
3							



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6. Which of the following statements are true and which are false ?

(i) The product of a positive integer and a negative integer is negative.

(ii) The product of two negative integers is a negative integer.

(iii) The product of three negative integers is a negative integer.

(iv) Every integer when multiplied with - 1 gives its multiplicative inverse.

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7. Simplify :

(i) $(-9) \times 6 + (-9) \times 4$ (ii) $8 \times (-12) + 7 \times (-12)$

(iii)

$30 \times (-22) + 30 \times (14)$ (iv) $(-15) \times (-14) + (-15) \times (-6)$

(v) $43 \times (-33) + 43 \times (-17)$ (vi) $(-36) \times (72) + (-36) \times 28$

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

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Exercise 4 E

1. Divide : (i) 85 by - 17 (ii) - 72 by 18 (iii) - 80 by 16

(iv) - 121 by 11 (v) 108 by - 12 (vi) - 161 by 23

$$(vii) -76 \text{ by } -19(viii) -147 \text{ by } -21(ix) -639 \text{ by } -71$$

$$(x) -15625 \text{ by } -125(xi) 2067 \text{ by } -1(xii) 1765 \text{ by } -1765$$

$$(xiii) 0 \text{ by } -278(xiv) 3000 \text{ by } -100$$



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2. Fill in the blanks :

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

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

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

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

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

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

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

$$(viii) (\dots\dots\dots) \div (-1) = 73$$

$$(ix) 1 + (\dots\dots\dots) = -1$$



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3. Write (T) for true and (F) for false for each of the following statements :

(i) $0 \div (-6) = 0$

(ii) $(-8) \div 0 = 0$

(iii) $15 \div (-1) = -15$

(iv) $(-16) \div (-4) = -4$

(v) $(-7) \div (-1) = 7$

(vi) $(-18) \div 9 = -2$

(vii) $20 \div (-5) = -4$

(viii) $(-10) \div 1 = -10$

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



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Exercise 4 F Objective Questions

1. Which of the following is a true statement ?

A. $-4 > -3$

B. $-4 < -3$

C. $-4 = -3$

D. non - comparable

Answer: B



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2. 2 less than -3 is

A. -1

B. 1

C. -5

D. 5

Answer: C



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3. 4 more than -5 is

A. 9

B. -9

C. -1

D. 1

Answer: C



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4. 2 less than -7 is

A. -9

B. -5

C. 5

D. none of these

Answer: *a*



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5. $7 + | - 3 | = ?$

A. 4

B. 10

C. -10

D. none of these

Answer: B



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6. $(- 42) + (- 35) = ?$

A. -7

B. 7

C. -77

D. none of these

Answer: *c*



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7. $(-37) + 6 = ?$

A. -43

B. -31

C. 31

D. none of these

Answer: B



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8. $49 + (-27) = ?$

A. -73

B. 73

C. 22

D. none of these

Answer: *c*



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9. The successor of -18 is

A. -19

B. 17

C. -17

D. 19

Answer: C



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10. The predecessor of -16 is

A. -15

B. -17

C. 15

D. 17

Answer: B



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11. The additive inverse of -5 is

A. 5

B. 0

C. -4

D. -6

Answer: A



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12. $-12 - (-5) = ?$

A. -17

B. -7

C. 7

D. none of these

Answer: B



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13. $5 - (-8) = ?$

A. 3

B. 13

C. -3

D. none of these

Answer: B



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14. The sum of two integers is -25 . If one of them is 30 then the other is

(A) 55 (B) 5 (C) -55 (D) None of these

A. 55

B. 5

C. -55

D. none of these

Answer: c



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15. The sum of two integers is 20. If one of them is -5 then the other is

A. 25

B. -25

C. 15

D. none of these

Answer: A



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16. The sum of two integers is -13 . If one of them is 8 then the other is

A. -5

B. -21

C. 21

D. none of these

Answer: B



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17. On subtracting -8 from 0 , we get

A. -8

B. 8

C. $+8$

D. none of these

Answer: b



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18. $8 + (-8) = ?$

A. 16

B. -16

C. 0

D. *no of these*

Answer: c



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19. $(-6) + 4 - (-3) = ?$

A. -5

B. -1

C. 1

D. none of these

Answer: *c*



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20. $6 - (-4) = ?$

A. 2

B. -10

C. 10`

D. none of these

Answer: *c*



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21. $(-7) + (-9) + 12 + (-16) = ?$

A. -20

B. 20

C. -12

D. none of these

Answer: A



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22. On subtracting 8 from -4 , we get

A. 4

B. 12

C. -12

D. none of these

Answer: b



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23. On subtracting -9 from -6 , we get

A. -15

B. -3

C. 3

D. none of these

Answer: C



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24. On subtracting -5 from 10 , we get

A. 5

B. -15

C. 15

D. none of these

Answer: b



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25. $(-6) \cdot 9 = ?$

A. 54

B. -54

C. $+54$

D. none of these

Answer: B



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26. $(-9)x6 + (-9)x4 = ?$

A. -90

B. 90

C. -18

D. 18

Answer: *a*



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27. $36 \div (-9) = ?$

A. 4

B. -4

C. $+4$

D. none of these

Answer: **b**



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1. What are integers ? Write all integers from -5 to 5 .



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2. In each of the pairs given below, find the larger integer.

(i) $0, -3$ (ii) $-4, -6$ (iii) $-99, 9$ (iv) $-385, -615$



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3. Write the following integers in increasing order :

$-18, 16, 0, -5, 8, -36, -1, 1$



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4. Find the value of :

(i) $9 - |-6|$ (ii) $6 + |-4|$ (iii) $-8 - |-3|$



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5. Write four integers less than -6 and four integers greater than -6 .



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6. Evaluate :

(i)

$$8 + (-16)$$

$$(ii) (-5) + (-6)$$

$$(iii) (-6) \times (-8)$$

$$(iv) (-30)$$

$$(v) 30 - (-50)$$

$$(vi) (-40) \div (-10)$$

$$(vii) 8 \times (-5)$$

$$(viii) (-)$$



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7. The sum of two integers is -12 . If one of them is 34 , find the other .

A. -46

B. -22

C. 22

D. 46

Answer: A



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8. Simplify :

(i) $(-24) \times (68) + (-24) \times 32$ (ii) $(-9) \times 18 - (-9) \times (8)$

(iii) $(-147) \div (-21)$ (iv) $16 \div (-1)$



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Test Paper 4 B

1. The successor of -89 is

A. -90

B. -88

C. 90

D. 88

Answer: B



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2. The predecessor of -99 is -98 (b) -100 (c) 98 (d) 100

A. -98

B. -100

C. 98

D. 100

Answer: b



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3. Additive inverse of -23 is

A. $(-1)/23$

B. $1/23$

C. 23

D. -23

Answer: C



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4. If $(-13 + 6) \square -25 - (-9)$, then the correct symbol in the place holder is

A. $<$

B. $>$

C. $=$

D. none of these

Answer: b



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5. $? + (-8) = 12$

A. -4

B. -20

C. 20

D. 4

Answer: c



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6. The integer which is 5 more than (-7) is

A. -12

B. 12

C. -2

D. 2

Answer: C



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7. What should be added to 16 to get (-31) ?

A. 15

B. -15

C. 37

D. -47

Answer: D



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8. When 34 is subtracted from -36 , we get

A. 2

B. -2

C. 70

D. -70

Answer: D



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Test Paper 4 C

1. Fill in the blanks.

(i) $-23 - (?) = 15$.

(ii) The largest negative integer is

(iii) The smallest positive integer is

(iv) $(-8) + (-6) - (-3) = \dots\dots\dots$

(v) The predecessor of -200 is

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Test Paper 4 D

1. Write 'T' for true and 'F' for false in each of the following :

(i) 0 is neither positive nor negative.

(ii) $-(-36) - 1 = -37$.

(iii) On the number line -10 lies to the right of -6 .

(iv) 0 is an integer.

(v) $-|-15| = -15$.

(vi) $|-40| + 40 = 0$.

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