MATHS

BOOKS - SWAN PUBLICATION

INTEGERS

Exercise 1 1

1. Use the appropriate symbol $>$, $\leq$ to fill in the blanks

$-3 \,\square\, -5$

▶ **Watch Video Solution**

2. Use the appropriate symbol $>$, $\leq$ to fill in the blanks

$-2 \square 5 - 4$

3. Use the appropriate symbol $>$, $\leq$ to fill in the blanks

$8 - 4 \square - 3$

4. Use the appropriate symbol $>$, $\leq$ to fill in the blanks

$-6 \square 5 - 0$

5. Use the appropriate symbol $>$, $\leq$ to fill in the blanks

$5 \,\square\, 8 - 3$

▶ **Watch Video Solution**

6. Use the appropriate symbol $>$, $\leq$ to fill in the blanks

$0 \,\square\, -3$

▶ **Watch Video Solution**

7. Arrange the following integers in ascending order.

$-2, 12, \; -43, 31, 7, \; -35, \; -10$
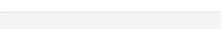
▶ **Watch Video Solution**

8. Arrange the following integers in ascending order.

$-20, 13, 4, 0, -5, 5$

▶ **Watch Video Solution**

9. Arrange the following integers I descending order

$0, -7, 19, -23, -3, 8, 46$

▶ **Watch Video Solution**

10. Arrange the following integers I descending order

$30, -2, 0, -6, -20, 8$

▶ **Watch Video Solution**

11. Evalute :

$$30 - |-21|$$

▶ **Watch Video Solution**

12. Evalute :

$$|-25| - |-18|$$

▶ **Watch Video Solution**

13. Evalute :

$$6 - |-4|$$

▶ **Watch Video Solution**

14. Evalute :

$$| - 125| + |110|$$

Exercise 1 2

1. Fill in the blanks using properties of adddition and subtraction of integers.

$$10 + [(- 5) + (- 7)] = [(10 + (- 5)] + \Box$$

2. Fill in the blanks using properties of adddition and subtraction of integers.

$25 - 10 = -10 + \square$

3. Fill in the blanks using properties of adddition and subtraction of integers.

$20 + 15 = 15 + \square$

4. Fill in the blanks using properties of adddition and subtraction of integers.

$(-12) + 37 = 37 + \square$

5. Fill in the blanks using properties of adddition and subtraction of integers.

$15 + (- 2) = \square$

▶ Watch Video Solution

6. Fill in the blanks using properties of adddition and subtraction of integers.

$-17 + \square = -17$

▶ Watch Video Solution

7. The difference between two integers is -10. If first integer is 17, then find the other integer.

▶ Watch Video Solution

8. Write three consecutive odd integers succee-ding (-93):

▶ **Watch Video Solution**

9. At sunrise, the outside temperature was $7°$ below zero. It the afternoon the temperature rose by $13°$ and then fell by $8°$ at night. What was the temperature at the end of the day?

▶ **Watch Video Solution**

10. Manjeet Singh has a bank balance of Rs -430 at the start of the month. What was the bank balance, after he deposited Rs 250?

▶ **Watch Video Solution**

11. Mount Everset, the highest elevation in Asia, is 29028 feet above the sea level. The Dead Sea is 1312 feet below the sea level. What is the difference between these two elevations?

> ▶ **Watch Video Solution**

12. In a quiz, Team A scored 70,-15,30. Team B scored -15, 70, 30 and team C scored 30, 70, -15. Which team scored better ? What conclusion do you draw ?

Team A   Team B   Team C

> ▶ **Watch Video Solution**

Exercise 1 3

1. Verify : $15 \times [9 + (-6)] = (15 \times 9) + (15 \times (-6))$

▶ **Watch Video Solution**

2. Verify :

$$18 \times [(-5) + (-4)] = [(18) \times (-5)] + [18 \times (-4)]$$

▶ **Watch Video Solution**

3. Fill in the blanks :

$$15 \times \square = 0$$

▶ **Watch Video Solution**

4. Fill in the blanks :

$$-25 \times \square = 25$$

▶ Watch Video Solution

5. Fill in the blanks :

$$(-15) \times 18 = \square \times (-15)$$

▶ Watch Video Solution

6. Fill in the blanks :

$$(-10) \times [(-15) + (-5)] = 9(-10) \times \square + (-10) \times (-5)$$

▶ Watch Video Solution

7. Fill in the blanks :

$$(- 6) \times [(- 5) \times (- 18)] = (- 6) \times \square \times (- 4)$$

8. Find product using properties

$$15 \times (- 20) + (- 20) \times (- 5)$$

9. Find product using properties

$$(15 \times 8) \times 50$$

10. Find product using properties

$8 \times (40 - 5)$

▶ Watch Video Solution

11. Find product using properties

$510 \times (- 45) + (- 510) \times 55$

▶ Watch Video Solution

12. In a class test containing 15 questions, 2 marks are awarded for every correct answer and (-1) mark for every incorrect answer and 0 mark for questions not attempted.

Kritika gets 5 correct and 10 incorrect answer. What is her score ?

13. In a class test containing 15 questions, 2 marks are awarded for every correct answer and (-1) mark for every incorrect answer and 0 mark for questions not attempted.

Rohan gets 7 correct and 7 incorrect answers out of 14 questions he attempted. What is his score ?

Exercise 1 3 Multiple Choice Questions

1. (-19)-(13) is equal to

A. -32

B. 6

C. -6

D. none of these

Answer: a

▶ **Watch Video Solution**

2. $(- 6) \times (- 5) \times 0$ is equal to

A. 0

B. -6

C. -5

D. 30

Answer: a

▶ **Watch Video Solution**

3. $0 \div (- 10)$ is equal to

A. 0

B. $- 1$

C. $- 10$

D. none of these

Answer: a

▶ **Watch Video Solution**

4. $(- 33) \times 102 + (- 33) \times (- 2)$ is equal to

A. 3300

B. $- 3300$

C. 3432

D. -3432

Answer: b

▶ **Watch Video Solution**

---

5. $101 \times (-1) + 0 \times (-1)$ is equal to

A. -101

B. 101

C. -102

D. 102

Answer: a

▶ **Watch Video Solution**

1. Evaluate each of the following :

$76 \div 19$

▶ **Watch Video Solution**

2. Evaluate each of the following :

$(- 156) \div (- 12)$

▶ **Watch Video Solution**

3. Evaluate each of the following :

$(- 125) \div (- 1)$

4. Evaluate each of the following :

$$(- 125) \div (- 1)$$

5. Evaluate each of the following :

$$0 \div (- 5)$$

6. Evaluate each of the following :

$$(- 15) \div (15)$$

7. Write all even integers between -18 and 0.

8. Write all odd integers between -9 and 9.

9. By what number should (-240) be divided to obtain 16 ?

10. Find the value of :

$$125 \div [5 \div (- 1)]$$

11. Find the value of :

$$[169 \div 13] \div [26 \div 2]$$

12. Find the value of :

$$[(-105) \div 3] \div 7$$

13. Simplify : $12[8 + 27 \div (2 \times 8 - 7)]$

14. Simplify : $10 - [8 - \{11 + 30 \div (4 + 2)\}$

> ▶ **Watch Video Solution**

Exercise 1 4 Multiple Choice Questions

1. $(-8) \div 2 =$

    A. -16

    B. -4

    C. 4

    D. -8

Answer: B

> ▶ **Watch Video Solution**

2. $(-7) \div (-7) =$

A. -1

B. 49

C. -49

D. none of these

Answer: D

▶ **Watch Video Solution**

3. $0 \div 2 =$

A. 1

B. 2

C. -2

D. 0

Answer: D

▶ **Watch Video Solution**

1. Which property is used in

$(- 8) + (- 9) = (- 9) + (- 8)$?

A. Associative property for addition of integers.

B. Commutative property for addition of integers.

C. Integers are closed under addition.

D. Additive identity property of integers.

Answer: B

2.   Which   property   is   used   in

$(- 5) + [(- 3) + (- 2)] = [(- 5) + (- 3)] + (- 2)$?

A. Commutative property for addition of integers.

B. Associative property for addition of integers.

C. Additive identity property of integers.

D. Integers are closed under addition.

Answer: B

3. Which property is used in

$$[(-3) \times (-2)] \times 5 = (-3) \times [(-2) \times 5)]?$$

A. Commutative property for multiplication of integers.

B. Associative property for multiplication of integers.

C. Distributive property of multiplication of integer over addition.

D. Multiplicative identity property of integers.

Answer: B

▶ **Watch Video Solution**

4. Which of the following statements is not true for any two integers a and b ?

A. $a \times b = ab$

B. $a \times (-b) = -ab$

C. $(-a) \times b = -ab$

D. $(-a) \times (-b) = -ab$

Answer: D

▶ **Watch Video Solution**

---

5. Which of the following statements is not true for integer a?

A. $a + 0 = a$

B. $a \times 0 = 0$

C. $a \times 1 = a$

D. $a + 1 = a$

Answer: D

6. Which of the following statement is not true ?

    A. Integers are closed under addition.

    B. Integers are closed under subtraction.

    C. 1 is additive identity of integers.

    D. Associative property over addition is true for integers.

Answer: C

7. Which of the following statement is not true ?

A. $a \div 1 = a$

B. $a \div 0 =$ Not defined

C. $0 \div a = 0$

D. $1 \div a = 1$

Answer: D

▶ **Watch Video Solution**

8. Which property of following will be used to solve $26 \times (- 48) + (- 48) \times (- 36)$?

A. Commutative property for addition of integers.

B. Associative property for multiplication of integers.

C. Distributive property of multiplication of integer over

addition.

D. Integers are closed under addition property.

Answer: C

▶ **Watch Video Solution**

9. Which of the following are in ascending order of integer

4,0,-5,-4?

A. 0,-5,-4,4

B. $-4, \ -5, 0, 4$

C. $-5, \ -4, 0, 4$

D. 0,-4,4,-5

Answer: C

10. Which of the following statements is not true ?

A. The sign of product of two negative integers is positive.

B. The sign of product of 5 negative integers and four positive integers is positive.

C. The sign of product of one negative integer and two positive integers in negative.

D. The sign of product of eight negative integer and three positive integers is positive.

Answer: B

Other Important Questions Ii Fill In The Blanks

1. Zero is .... Identity of integers.

▶ **Watch Video Solution**

2. The difference of two integers is an ....

▶ **Watch Video Solution**

3. For integers a, b and c

$a \times (b + c) = $ ....

▶ **Watch Video Solution**

4. For every non-zero integer a,

$$0 \div a = \text{...................}$$

5. All integers which are not exactly divisible by 2 are called

....

6. For a non-zero integer a, $a \div a = $ ....

7. $-20 - |-12| = $ ....

> ▶ **Watch Video Solution**

8. (-93)............. (-92)
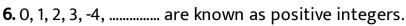
> ▶ **Watch Video Solution**

Other Important Questions Iii State Whether The Following Statements Are True Or False

1. Zero is an integer which is neither positive nor negative.

> ▶ **Watch Video Solution**

2. The sum of two integers is not an integer.

▶ **Watch Video Solution**

3. Subtraction of integers is not commutative.

▶ **Watch Video Solution**

4. Division of integers with same sign gives quotient with a positive sign.

▶ **Watch Video Solution**

5. When an integer is divided by another the quoitent needs to be an integer.

6. 0, 1, 2, 3, -4, ... are known as positive integers.

 ▶ **Watch Video Solution**

7. Additive inverse of a is (-a).

 ▶ **Watch Video Solution**

8. Subtraction of integers is associative.

 ▶ **Watch Video Solution**