

Class VII Math Test
Integers

Time: 1:30 hr

M.M: 40

1. Fill in the blanks: $1 \times 5 = 5$
- The division of any integer by zero is _____.
 - The integer whose product with (-1) is 22 is _____.
 - _____ divided by $(-25) = 0$
 - $(-a) + b = b +$ additive inverse of _____.
 - When -25 is divided by _____ the quotient is 5.
2. State whether the following statements are true (T) or false (F): $\frac{1}{2} \times 6 = 3$
- For every integer a , $|a|$ is either positive or zero.
 - The difference of two negative integers cannot be a positive integer.
 - We can write a pair of integers whose sum is not an integer.
 - Going 300 metres towards east first and then 100 m back is the same as going 100 m towards west first and then going 300 back.
 - If we multiply an integer by (-1) , then the result is the additive inverse of the integer.
 - $(-17) \times 6$ is a whole number
3. State whether the following statements are true or false. Justify your answer: $1 \times 4 = 4$
- The sum of a positive integer and a negative integer is always positive integer.
 - The sum of two integers is always greater than their difference.
 - For any two integers a and b , the inequality $-a < b$ always true.
 - The product of two integers is always greater than sum of the integers.
4. Choose the correct answer from the given four options: $\frac{1}{2} \times 10 = 5$
- If the integers 10, -7, 5, 3, -4 and 0 are marked on the number line, then the integer which lies on the extreme left is
(a) 10 (b) 0 (c) -7 (d) -4
 - on the number line, the value of $(-3) \times 3$ lies on the right hand side of
(a) -10 (b) -6 (c) 0 (d) 9
 - The value of 5 divided by (-1) does not lie between
(a) 0 and -10 (h) 0 and 10 (c) -3 and -10 (d) -7 and 7
 - The next number in the pattern -62, -37, -12, _____ is
(a) 25 (b) 0 (c) 13 (d) -138.
 - Multiplication of integers satisfies the property of
(a) closure (b) commutativity (c) associativity (d) all of these
 - Closure property does not hold in integers for
(a) multiplication (b) division (c) addition (d) subtraction

- g. The number of integers between -20 and -10 are
 (a) 8 (b) 9 (c) 10 (d) 11
- h. If the sum of two integers is -10 and one of them is 2, then the other is
 (a) 8 (b) -8 (c) 12 (d) -12
- i. The integer that must be subtracted from -5 to obtain -12 is
 (a) 7 (b) -7 (c) 17 (d) -17
- j. Which of the following is not the additive inverse of a?
 (a) - (- a) (b) - a (c) a + (- 1) (d) a x (- 1)

5. Evaluate the following:

$$1 \times 4 = 4$$

- a. (-36) divided by $(-9) = ?$
 b. (-784) divided by $(-56) = ?$
 c. (-31) divided by $[(-30) + (-1)]$
 d. $[(-6) + 5]$ divided by $[(-2) + 1]$

6. An elevator descends into a mine shaft at the rate of 6 m/min. if the descend start from 10 m above the ground level, how long will it take to reach the shaft 350 m below the ground level?

3

7. Write a pair of integers whose product is -12 and there lies seven integers between them.

2

8. What will be the sign of the product if we multiply 39 negative integers and 98 integers?

2

9. Use the sign $>$, $<$ or $=$ in the box to make the following statements true: $\frac{1}{2} \times 4 = 2$

- a. $(-15) + 38$ _____ $27 + (-50)$
 b. $(-13) \times 0 \times (-5)$ _____ $(-7) \times (-6) \times 14$
 c. $(-18) \div (-3)$ _____ $(-10) + (-15) + 31$
 d. $(-5) \times (-7) \times (-10)$ _____ $(-1400) \div (-4)$

10. A cement company earns a profit of Rs 8 per bag of white cement sold and a loss of Rs 5 per bag of grey cement sold.

$$2 \times 3 = 6$$

- a. The company sells 3000 bags of white cement and 5000 bags of grey cement in a month. What is its profit or loss?
 b. What is the number of white cement bags it must sell to have neither profit nor loss, if the number of grey cement bags sold is 6400?

11. Simplify the following:

$$2 \times 2 = 4$$

- a. $(-7) + (-6) \div 2 - \{(-5) \times (-4) - (3 - 5)\}$
 b. $11 - [7 - \{5 - 3(9 - 3 - 6)\}]$.