



Chapter 2 Linear Equations in one variable

MCQ TEST

Name:

Class :VIII Sec:

Multiple choice questions

- Which of the following is a linear expression in one variable?
A. $a^2 - 3$ B. $x + y + z$ C. 4 D. $1 + x$
- The coefficient of y in $-x^2 - 2y + 1$ is:
A. 1 B. -2 C. 2 D. -1
- The perimeter of a rectangle is 15 cm and its width is $3\frac{3}{4}$ cm. Find its length in cm.
A. $2\frac{3}{4}$ B. $-3\frac{3}{4}$ C. $3\frac{3}{4}$ D. None of these
- Sagarika solves a linear equation. Her work is shown below:

$3a - 2 = \frac{a}{3} - 4$
$3(3a - 2) = a - 4 \dots \text{Step 1}$
$9a - 6 = a - 4 \dots \text{Step 2}$
$9a - a = 6 - 4 \dots \text{Step 3}$
$8a = 2 \dots \text{Step 4}$
$a = \frac{1}{4}$

- Is Sagarika's solution correct? If not, in which step did Sagarika make an error?
- A. Yes, solution is correct. B. No, Step 1 is wrong
C. No, Step 2 is wrong D. No, Step 3 is wrong
- The shifting of a number from one side of an equation to the other is called _____.
A. Transposition B. Commutativity C. Distributive property D. Associativity
 - If $\frac{4}{15} \times x = \frac{16}{55}$, the value of x is
A. $\frac{1}{15}$ B. $\frac{12}{13}$ C. $\frac{11}{12}$ D. $1\frac{1}{11}$
 - If $\frac{x}{3} + 1 = \frac{7}{15}$, then which of the following is correct?
A. $\frac{x}{3} = \frac{7}{15} - 1$ B. $\frac{x}{3} = -\frac{7}{15} + 1$ C. $\frac{x}{3} = -\frac{7}{15} - 1$ D. none of these
 - If x is an even number, then the next even number is:
A. $x + 1$ B. $x + 2$ C. $x + 3$ D. $x + 4$
 - The perimeter of a rectangle is 40 cm. If its width is 10 cm, then find the length.
A. 10 B. 20 C. 30 D. 40
 - Find the value of x if $2x + 10 = 76$.

A. 33 B. 7.6 C. 66 D. 32

11. Identify the algebraic linear equations from the given expressions.

A. $x^2 + x = 2$ B. $3x + 5 = 11$ C. $5 + 7 = 12$ D. $x + y^2 = 3$

12. If a number is divided by 8 it gives 6 as the value. Find the number.

A. 36 B. 42 C. 48 D. 56

13. Pick the equation from the given one's which have solution as $z = 2$.

A. $2z - 2 = 3$ B. $3z - 2 = -2$ C. $3z - 3 = 3$ D. $4z + 3 = 3$

14. The difference between two numbers is 30. If the bigger number is x , then the smaller number would be _____.

A. $x - 30$ B. $30 - x$ C. $30 + x$ D. $30 \times x$

15. The multiplicative inverse of $\frac{x}{15}$ is _____.

A. $\frac{-15}{x}$ B. $\frac{15}{x}$ C. $\frac{-x}{15}$ D. 15