

CBSE Worksheet-1
CLASS – VII Mathematics (Simple Equations)

A. Choose correct option in questions 1 to 4:

1. Write the equation for 'The sum of three times x and 11 is 32'.
(a) $3x + 11 = 32$
(b) $x + 11 = 32$
(c) $3x = 32$
(d) $x + 11 = 3$
2. Raman's father's age is 5 years more than three times Raman's age. Raman's father is 44 years old. Set up an equation to find Raman's age.
(a) $x + 3 = 44$
(b) $3x + 5 = 44$
(c) $x + 5 = 44$
(d) $3x - 5 = 44$
3. What is n in $3n + 7 = 25$?
(a) 7 (b) 5 (c) 6 (d) 8
4. What is l in $3l = 42$?
(a) 2 (b) 14 (c) 18 (d) 12

B. Fill in the blanks:

5. An _____ is a condition on a variable.
6. In the Equation $4x + 5 = 65$, the _____ is $(4x + 5)$.
7. If we add the same number to both sides of a balance equation, the balance is _____.
8. Solve the following equations:
(a) $10p = 100$
(b) $10p + 10 = 100$
9. Solve the following equations
(a) $4(m + 3) = 18$ (b) $-2(x + 3) = 5$
10. The sum of three times a number and 11 is 32. Find the number.

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Answer key

1. a

Explanation:

3 times a number $x = 3x$

Sum of 3times a number x and $11 = 3x + 11$

Result = 32

Therefore the equation is, $3x + 11 = 32$.

2. b

Explanation:

3 times Raman's age = $3x$

5 more than 3 times Raman's age = $3x + 5$

Given, Raman's father's age = 44

Therefore the equation can be written as, $3x + 5 = 44$.

3. c

Explanation:

$$3n + 7 = 25$$

$$3n = 25 - 7$$

$$3n = 18$$

$$n = \frac{18}{3}, n = 6.$$

4. b

Explanation:

$$3l = 42$$

$$l = 14.$$

5. equation

6. L.H.S.

7. undisturbed

8. (a) $p = 10$

Explanation:

$$10p = 100$$

$$p = \frac{100}{10}, p = 10.$$

(b) $p = 9$

Explanation:

$$10p + 10 = 100$$

$$10p = 100 - 10$$

$$10p = 90$$

$$p = \frac{90}{10}, p = 9.$$

9. (a) $m = \frac{3}{2}$

Explanation:

$$4(m + 3) = 18$$

$$4m + 12 = 18$$

$$4m = 18 - 12$$

$$4m = 6$$

$$m = \frac{6}{4}$$

$$m = \frac{3}{2}.$$

(b) $x = \frac{-11}{2}$

Explanation:

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

$$-2x - 6 = 5$$

$$-2x = 5 + 6$$

$$-2x = 11$$

$$x = \frac{-11}{2}.$$

10. 7

Explanation:

Let the number be x

3 times number $x = 3x$

Sum of 3 times number x and 11 = $3x + 11$

Result = 32

Therefore the equation is, $3x + 11 = 32$

$$3x = 32 - 11$$

$$3x = 21$$

$$x = \frac{21}{3}, x = 7.$$