

Grade 7 Simple Equations Worksheets

Grade 7 Maths Simple Equations Multiple Choice Questions (MCQs)

1. Write the statements “If you subtract 5 from 6 times a number, you get 7.” in the form of equations:

- (a) $6x - 5 = 7$
- (b) $5x - 6 = 7$
- (c) $x - 5 = 7$
- (d) $x - 6 = 7$

2. Write the statements “One third of a number plus 5 is 8” in the form of equations:

- (a) $3m + 5 = 8$
- (b) $m + 5 = 8$
- (c) $\frac{1}{3}m + 5 = 8$
- (d) $\frac{1}{3}m + 8 = 5$

3. Which is a solution of the equation $x + 4 = 6$?

- (a) $x = 2$
- (b) $x = 3$
- (c) $x = 4$
- (d) $x = 6$

4. Which is a solution of the equation $3x - 14 = 4$?

- (a) $x = 2$
- (b) $x = 3$
- (c) $x = 4$
- (d) $x = 6$

5. Write the statements “2 subtracted from a number is 8” in the form of equations:

- (a) $x - 8 = 2$
- (b) $x - 2 = 8$
- (c) $x + 2 = 8$
- (d) none of these

6. Write the statements “If you take away 6 from 6 times a number, you get 60” in the form of equations:

- (a) $6x + 6 = 60$
- (b) $6x - 6 = 60$
- (c) $x - 6 = 60$
- (d) none of these

7. Write the statements “If you add 3 to one-third of a number, you get 30” in the form of equations:

(a) $x + 3 = 30$

(b) $\frac{1}{3}x + 3 = 30$

(c) $x + \frac{1}{3} = 30$

(d) none of these

8. The solution of the equation $\frac{m}{5} = 3$ is m:

(a) 12

(b) 13

(c) 15

(d) none of these

9. The solution of the equation $\frac{p}{2} + 2 = 8$ is p =

(a) 12

(b) 13

(c) 14

(d) 11

10. The solution of the equation $3p + 4 = 25$ is p =:

(a) 5

(b) 6

(c) 4

(d) 7

11. The solution of the equation $\frac{20p}{3} = 40$ is p:

(a) 5

(b) 6

(c) 4

(d) 7

12. The solution of the equation $3n - 2 = 46$ is n:

(a) 12

(b) 11

(c) 16

(d) none of these

13. Find a number, such that one fourth of the number is 3 more than 7.

(a) 40

(b) 20

(c) 30

(d) none of these

14. Raju's father's age is 5 years more than three times Raju's age. Find Raju's age, if his father is 44 years old.

(a) 12

(b) 13

(c) 15

(d) none of these

15. What is that number one third of which added to 5 gives 8?

(a) 11

(b) 10

(c) 9

(d) none of these

16. **The solution of the equation $4(m + 3) = 18$ is $m =$:**

(a) $\frac{6}{4}$

(b) 3

(c) $\frac{30}{4}$

(d) none of these

17. **The solution of the equation $34 - 5(p - 1) = 4$ is $p =$:**

(a) 5

(b) 6

(c) 4

(d) 7

18. **Nine added to thrice a number a whole number gives 45. Find the number.**

(a) 12

(b) 13

(c) 15

(d) none of these

19. **Four-fifths of a number is greater than three-fourths of the number by 4. Find the number.**

(a) 40

(b) 60

(c) 80

(d) none of these

20. **Twice a number when decreased by 7 gives 45. Find the number.**

(a) 26

(b) 23

(c) 25

(d) none of these

Grade 7 Maths Simple Equations Complete the last column of the table.

S. No.	Equation	Value	Say, whether the equation is satisfied. (Yes/No)
1.	$x + 3 = 0$	$x = 0$	
2.	$x + 3 = 0$	$x = -3$	
3.	$x - 7 = 1$	$x = 7$	
4.	$x - 7 = 1$	$x = 8$	
5.	$5x = 25$	$x = 0$	
6.	$5x = 25$	$x = 5$	
7.	$5x = 25$	$x = -5$	
8.	$\frac{m}{3} = 2$	$m = -6$	
9.	$\frac{m}{3} = 2$	$m = 0$	
10.	$\frac{m}{3} = 2$	$m = 6$	

Grade 7 Maths Simple Equations Very Short Answer Type Questions

Solve the following equations

- $\frac{3x}{8} = 27$
- $5x + 3 = \frac{4}{3}(1 + x)$
- $1 - 2(2 - y) = 7$
- $0.15(5x - 2) = 0.4(x + 1)$
- $\frac{x}{3} + 3 = 30$
- $\frac{x}{4} - 4 = 4$

Grade 7 Maths Simple Equations Short Answer Type Questions

- Write equations for the following statements:
 - The length of a rectangle is 5 more than its breadth and its perimeter is 250 m.
 - One third of a number is 8 less than the three times of the number.
- If $x = y + 2$, then find the value of y in equation

$$y - \frac{(x-2)}{2} = \frac{2}{3}$$

3. Solve the following equations:

(a) $4 + 5(m - 1) = 34$

(b) $0 = 16 + 4(n - 6)$

4. If the difference of two complementary angles is 10° then find measure of each angle.

Grade 7 Maths Simple Equations Long Answer Type Questions

1. Find the measure of such angle whose supplementary angle is 35° more than twice of its complementary angle.

2. The ratio of Nisha and Nishant ages in 4 : 5. After 10 years the father's age will become 5 : 6. Find their present ages.

3. A father is 35 years more than his son's age. After 5 years the father's age will be twice of his son's age.

Find the present age of both.