



## Sixth Grade - Equation and inequalities

1) Solve the following: Single variable simple linear equations  $x - 89 = 2$ ?

- 214
- 125
- 101
- 324

2) Solve the following: Single variable simple linear equations  $y - 21 = 39$ ?

- 65
- 60
- 50
- 40

3) Solve the following: Single variable simple linear equations  $12 = m \div 18$ ?

- 198
- 168
- 216
- 312

4) Solve the following: Single variable simple linear equations  $P \div 7 = 4$ ?

- 32
- 28
- 48
- 41

5) Solve the following: Single variable simple linear equations  $x \div 8 = 5$ ?



- 24
- 46
- 32
- 40

6) Solve the following: Single variable simple linear equations  $2x - 6x + 12 - 26 + 5x = 40$ ?

- 54
- 34
- 24
- 43

7) Solve the following: Single variable simple linear equations  $5p - 14 + 3p + 4p - 25 - 9p = 57$ ?

- 24
- 32
- 36
- 22

8) Solve the following: Single variable simple linear equations  $-2s + 23 + 15 - 6s + 5s = -1$ ?

- 22
- 34
- 13
- 18

9) Solve the following: Single variable simple linear equations  $3(x + 4) = 30$ ?

- 6
- 5
- 8
- 4



10) Solve the following: Single variable simple linear equations  $5(a - 2) = 0$ ?

- 6
- 4
- 8
- 2

11) Solve the following: Single variable simple linear equations  $4a + 3(a - 2) = 1$ ?

- 1
- 6
- 2
- 7

12) Solve the following: Single variable simple linear equations  $a + 2(a - 7) = 1$ ?

- 4
- 8
- 5
- 3

13) Solve the following: Single variable simple linear equations  $3x + 4(x + 2) = 22$ ?

- 6
- 2
- 5
- 8

14) Solve the following: Single variable simple linear equations  $7p - 3(p + 4) = 8$ ?

- 9
- 3



- 5
- 7

15) Solve the following: Single variable simple linear equations  $5x = 7(x - 2)$ ?

- 6
- 7
- 9
- 4

16) Solve the following: Single variable simple linear equations  $2(x - 5) = 6(1 - x)$ ?

- 4
- 8
- 2
- 6

17) Solve the following: Single variable simple linear equations  $5(y + 8) = 3(y + 20)$ ?

- 10
- 44
- 32
- 22

18) Solve the following: Single variable simple linear equations  $6(p - 8) = 2(4 - p)$ ?

- 4
- 8
- 9
- 7



19) Solve the following: Single variable simple linear equations  $5x - 3 = 3x + 7$ ?

- 8
- 6
- 12
- 5

20) Solve the following: Single variable simple linear equations  $y = 2 - 2[2y - 3(1 - y)]$

- $4/13$
- $8/11$
- $10/14$
- $9/10$

21) Solve the following: Single variable simple linear equations  $2x + 5 = 10 - 3x$

- 9
- 6
- 3
- 1

22) Solve the following: Single variable simple linear equations  $8x + 8 = 5x + 19$

- $12/8$
- $11/3$
- $13/4$
- $16/3$

23) Solve the following: Single variable simple linear equations  $5x - 3 = 3x - 5$

- -7
- -4
- -8
- -1



24) Solve the following: Single variable simple linear equations  $4p + 2 = 9 - 3p$

- 6
- 8
- 4
- 1

25) Solve the following: Single variable simple linear equations  $6x - 5 - 2x + 3 - 2 = 4$

- 4
- 8
- 2
- 6

26) Solve the following: Single variable simple linear equations  $m + 13m - 13 = 15$

- 4
- 6
- 8
- 2

27) Solve the following: Single variable simple linear equations  $7 = 8 + 5j - 9 + 3j$

- 1
- 2
- 9
- 6

28) Solve the following: Single variable simple linear equations  $d + 8 - 14 + 14d = 39$



- 8
- 3
- 9
- 4

29) Write the following statements to a mathematical inequality in one variable: The square of  $m$  is greater than zero?

- $m$
- $m^2 > 0$
- $m^2$
- $m > 0$

30) Write the following statements to a mathematical inequality in one variable: The absolute value of the opposite of  $k$  is greater than 2?

- $|-k| > 8$
- $|-k| > 3$
- $|-k| > 2$
- $|-k|$