



2.3 – Linear equations

Student name: _____ Score: _____

1. Solve the equation $17 - 2x = 4x - 7$.

$x =$ [2]

2. Solve the equation.

$$\frac{x+3}{7} - \frac{3(x-1)}{14} = 1$$

$x =$ [3]

3. Solve the equations.

$$2 - 3(1 - 2x) = 4(2 - x)$$

$x =$ [3]

4. Find n when $\frac{5}{6} = \frac{n}{24}$.

$n =$ [1]

5. Solve.

$$\frac{x}{2} - \frac{x+1}{3} = 2$$

$x =$ [3]

6. Solve the following equation.

$$\frac{2x+1}{3} + \frac{x+1}{2} = 9$$

$x =$ [3]

7. Solve these equations.

(a) $\frac{x}{5} + 7 = 3$

$x =$ [2]

(b) $7(x+3) - 2(x+4) = 10$

$x =$ [3]

8. Solve.

$$2x - 3(1 - 4x) = 2(11 - 3x)$$

$x =$ [3]

9. Solve.

$$7x + 9 = 5x + 17$$

$x =$ [2]



10. Solve.

$$2 - 4(5 - 2x) = 0$$

$x = \dots\dots\dots [2]$

11. Solve.

(a) $4x = 28$

$x = \dots\dots\dots [1]$

(b) $3(a - 6) = 24$

$a = \dots\dots\dots [2]$

12. Solve the equation.

$$x - 11 = -4$$

$x = \dots\dots\dots [1]$

13. Solve the equation.

$$45 - \frac{90}{x} = 15$$

$x = \dots\dots\dots [3]$

14. Solve.

$$6x - 5 = 19$$

$x = \dots\dots\dots [2]$

15. Solve.

$$6 - 2t = -12$$

$t = \dots\dots\dots [2]$

16. Solve.

$$-3(1 - 4x) = 9$$

$x = \dots\dots\dots [3]$

17. Solve the equation.

$$2x - 7 = -3$$

$x = \dots\dots\dots [2]$

18. Solve.

$$2(4x - 1) = 3(2x + 1)$$

$x = \dots\dots\dots [3]$



19. Solve.

$$\frac{8-x}{3} = \frac{x+1}{2}$$

$x = \dots\dots\dots [3]$

20. Solve.

(a) $5 - 2x = 0$

$x = \dots\dots\dots [1]$

(b) $-12 + 2x = 5x - 3$

$x = \dots\dots\dots [2]$

21. Solve the equation.

$$2q - 7 = 2 - 7q$$

$q = \dots\dots\dots [2]$

