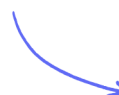


Linear Equations

Solving Linear Equations / Equations with Brackets & Fractions / Equations with Unknowns on Both Sides

Easy (5 questions)	/6
Medium (9 questions)	/25
Hard (8 questions)	/35
Total Marks	/66

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Easy Questions

1 Solve $x + x + x + x = 12$

$x = \dots\dots\dots$

(1 mark)

2 Solve $t - 9 = 7$

$t = \dots\dots\dots$

(1 mark)

3 Solve $\frac{x}{8} = 5$

$x = \dots\dots\dots$

(1 mark)

4 (a) Complete these statements.

When $w = \dots\dots\dots$, $10w = 70$.

(1 mark)

(b) When $5x = 15$, $12x = \dots\dots\dots$

(1 mark)

5 Solve $5x = 4x + 6$

$X = \dots\dots\dots$

(1 mark)

Medium Questions

1 Solve $4x + 9 = 25$

$x = \dots\dots\dots$

(2 marks)

2 (a) Solve $\frac{5x}{2} = 20$

$x = \dots\dots\dots$

(2 marks)

(b) Solve $\frac{f+8}{7} = 2$

$f = \dots\dots\dots$

(2 marks)

3 Solve $3x = 5 - 2x$

$x = \dots\dots\dots$

(2 marks)

4 Solve the equation $12x - 7 = 23$

$x = \dots\dots\dots$

(2 marks)

5 Solve these equations.

i) $x + 7 = 15$

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

ii) $5(3x + 8) = 10$

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

(4 marks)

6 (a) Solve $8(w + 11) = 120$

$w = \dots\dots\dots$

(2 marks)

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

$x = \dots\dots\dots$

(2 marks)

7 Solve $7x - 5 = 16$

$x =$

(2 marks)

8 Solve the equation $6 - 2x = 3x$

$x =$

(2 marks)

9 Solve $3(5x - 9) = 27$

(3 marks)

Hard Questions

1 Solve $6(3 - 2x) = 42$

$x = \dots\dots\dots$

(3 marks)

2 Solve $\frac{16x + 7}{3} = 5$

(3 marks)

3 Solve $8x + 6 = 2(9 + x)$

$x = \dots\dots\dots$

(3 marks)

4 Solve these equations.

i) $\frac{x}{3} = 18$

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

ii) $5x + 18 = 8$

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

iii) $12x - 3 = 4x + 21$

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

(5 marks)

5 Solve $5(2x + 4) = 85$

$$x = \dots\dots\dots$$

(3 marks)

6 Solve these equations.

i) $5x = -30$

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

ii) $4x - 2 = 28$

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

iii) $3(2x + 7) = 12$

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

(6 marks)

7 Solve.

i) $10x = 5$

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

ii) $7x - 3 = 2x + 11$

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

iii) $3(2x - 1) = 27$

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

(6 marks)

8 Solve these equations.

i) $\frac{x}{4} = 20$

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

ii) $3x - 5 = 16$

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

iii) $5(2x + 1) = 27$

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

(6 marks)