

# SOLVING LINEAR EQUATIONS WHERE THE SOLUTIONS ARE FRACTIONS

Answer all of these questions. Remember to show your working out in all questions.

## MAIN QUESTIONS

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|-----|-----------------|--|---------|-----|-----------------|--|---------|
| 1.  | $2x + 3 = 7$    |  | $x = 2$ | 2.  | $5x - 4 = 11$   |  | $x = 3$ |
| 3.  | $4x + 1 = 9$    |  | $x = 2$ | 4.  | $3x - 2 = 10$   |  | $x = 4$ |
| 5.  | $7x + 5 = 26$   |  | $x = 3$ | 6.  | $6x - 3 = 15$   |  | $x = 3$ |
| 7.  | $8x + 4 = 20$   |  | $x = 2$ | 8.  | $9x - 6 = 21$   |  | $x = 3$ |
| 9.  | $10x + 7 = 37$  |  | $x = 3$ | 10. | $11x - 8 = 36$  |  | $x = 4$ |
| 11. | $12x + 9 = 45$  |  | $x = 3$ | 12. | $13x - 10 = 55$ |  | $x = 5$ |
| 13. | $14x + 11 = 67$ |  | $x = 4$ | 14. | $15x - 12 = 78$ |  | $x = 6$ |
| 15. | $16x + 13 = 91$ |  | $x = 5$ |     |                 |  |         |

## MASTER QUESTIONS



- M1. A rectangle has a perimeter of 24cm and an area of  $35\text{cm}^2$ . Find its dimensions. | The rectangle is 7cm by 5cm

- M2.** The sum of two numbers is 15 and their difference is 3. Find the numbers. | The numbers are 9 and 6
- M3.** A train travels 300 miles in 5 hours. What is its speed? | The train's speed is 60 mph
- M4.** A shop sells apples for £1.20 per kg and oranges for £1.50 per kg. If a customer buys 3 kg of apples and 2 kg of oranges, how much do they pay? | The customer pays £6.60