Solving Linear Equations

Question 1. Solve:
$$x + 7 = 12$$

[1 mark]

Question 2. Solve:
$$x - 5 = 3$$

[1 mark]

Question 3. Solve:
$$4x = 20$$

[1 mark]

Question 4. Solve:

$$\frac{x}{3} = 6$$

[1 mark]

Question 5. Solve:

$$x + 9 = 15$$

[1 mark]

Question 6. Solve:

$$x - 2 = 10$$

[1 mark]

Question 7. Solve:
$$6x = 42$$

[1 mark]

Question 8. Solve:
$$\frac{x}{5} = 8$$

[1 mark]

Question 9. Solve:
$$x + 4 = 9$$

[1 mark]

Question 10. Solve:
$$x - 6 = 1$$

[1 mark]

Question 11. Solve:
$$2x + 3 = 11$$

[2 marks]

Question 12. Solve:
$$5x - 7 = 13$$

[2 marks]

Question 13. Solve:
$$4x + 2 = 3x + 9$$

[2 marks]

Question 14. Solve:
$$6x - 4 = 2x + 8$$

[2 marks]

Question 15. Solve:
$$7x + 3 = 5x + 11$$

[2 marks]

Question 16. Solve:
$$2x - 5 = x + 6$$

[2 marks]

Question 17. Solve:
$$9x + 1 = 3x + 19$$

[2 marks]

Question 18. Solve:
$$3x + 4 = 6x - 5$$

[2 marks]

Question 19. Solve:
$$8x - 3 = 2x + 15$$

[2 marks]

Question 20. Solve:
$$10x - 7 = 6x + 5$$

[2 marks]

Question 21. Solve:
$$3x + 2 = 2x + 7$$

[3 marks]

Question 22. Solve:
$$2(x - 3) = x + 5$$

[3 marks]

Question 23. Solve:
$$5(x + 2) - 3 = 2x + 16$$

[3 marks]

Question 24. Solve:
$$\frac{2x - 5}{3} = 4$$

[3 marks]

Question 25. Solve:
$$\frac{x+2}{4} + 1 = 5$$

[3 marks]

Question 26. Solve:
$$3(x - 1) = 2(x + 2)$$

[3 marks]

Question 27. Solve:
$$7x - 3 = 3(x + 5)$$

[3 marks]

Question 28. Solve:

$$\frac{3x+1}{2} = \frac{x+7}{3}$$

[3 marks]

Question 29. Solve:

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

[3 marks]

Question 30. Solve:

$$\frac{2x-1}{5} + 3 = x$$

[3 marks]

Question 31. Sophie thinks of a number. She adds 7 and gets 19. What was her number?

[3 marks]

Question 32. Jake buys 3 identical books and pays £21. Each book costs the same.

How much is one book?

[3 marks]

Question 33. A rectangle has length x cm and width $x + 3$ cm. The perimeter is 26 cm. Find x.

[3 marks]

Question 34. Sarah is 4 years older than Tom. The sum of their ages is 28. How old is Tom?

[3 marks]

Question 35. A cinema charges £6 for a child ticket and £10 for an adult ticket. A family buys 2 child and 3 adult tickets and pays £42. Find the cost of each ticket type.

[3 marks]

Question 36. A number is multiplied by 4 and then decreased by 5. The result is 23. What was the number?

[3 marks]