Multiple choice questions - Solving one-step and two-step equations

Year: Year 7 · 10

Question 1 Solve $x + 9 = 15$.

- **A.** $x = 6$
- **B.** $x = 24$
- **C.** $x = 9$
- **D.** $x = -6$

Question 2 Solve $4x = 28$.

- **A.** $x = 24$
- **B.** $x = 7$
- **C.** $x = 112$
- **D.** $x = 32$

Question 3 Solve $2x + 1 = 9$.

- **A.** $x = 5$
- **B.** $x = 10$
- **C.** $x = 4$
- **D.** $x = 3.5$

Question 4 Solve $3x - 4 = 11$.

- **A.** $x = 7$
- **B.** $x = 3$
- **C.** $x = \frac{7}{3}$
- **D.** $x = 5$

Question 5 Solve $\frac{x}{4} = 3$.

- **A.** $x = 12$
- **B.** $x = 7$
- **C.** $x = \frac{3}{4}$
- **D.** $x = 1$

Question 6 Solve $5x + 3 = -7$.

- **A.** $x = 2$

- **B.** $x = -2$
- **C.** $x = -\frac{4}{5}$
- **D.** $x = -10$

Question 7 Solve $4(x + 1) = 20$.

- **A.** $x = 5$
- **B.** $x = 6$
- **C.** $x = 4$
- **D.** $x = 16$

Question 8 Solve $6x = 2x + 12$.

- **A.** $x = 2$
- **B.** $x = 1.5$
- **C.** $x = 12$
- **D.** $x = 3$

Question 9 I think of a number, double it and subtract 3. I get 11. What was the number?

- **A.** 7
- **B.** 8
- **C.** 5
- **D.** 19

Question 10 Which equation has the solution $x = 5$?

- **A.** $2x + 1 = 12$
- **B.** $3x - 1 = 14$
- **C.** $x + 5 = 5$
- **D.** $4x = 25$

Answer grid - Solving one-step and two-step equations

Year: Year 7

Question	Answer	Explanation
1	**A**	Subtract 9 from both sides.
2	**B**	Divide both sides by 4.
3	**C**	Subtract 1: 2x = 8, then divide by 2.
4	**D**	Add 4: 3x = 15, then divide by 3.
5	**A**	Multiply both sides by 4.
6	**B**	Subtract 3: 5x = -10, divide by 5.
7	**C**	Divide by 4: x + 1 = 5.
8	**D**	Subtract 2x: 4x = 12, divide by 4.
9	**A**	2n - 3 = 11, so 2n = 14 and n = 7.
10	**B**	3 x 5 - 1 = 14.