Multiple choice questions - Solving linear equations

Year: Year 8 · 10

Question 1 Solve $x - 9 = 4$.

- ◯ **A.** 5
- ◯ **B.** 13
- ◯ **C.** -5
- ◯ **D.** 36

Question 2 Solve $4x + 1 = 21$.

- ◯ **A.** 4
- ◯ **B.** 5
- ◯ **C.** 6
- ◯ **D.** 20

Question 3 Solve $6x = 45$.

- ◯ **A.** 7.5
- ◯ **B.** 8
- ◯ **C.** 39
- ◯ **D.** 270

Question 4 Solve $3(x - 2) = 15$.

- ◯ **A.** 3
- ◯ **B.** 5
- ◯ **C.** 7
- ◯ **D.** 9

Question 5 Solve $8x - 3 = 5x + 9$.

- ◯ **A.** 2
- ◯ **B.** 3
- ◯ **C.** 4
- ◯ **D.** 12

Question 6 Solve $\frac{x}{5} = 3$.

- ◯ **A.** 8
- ◯ **B.** 2
- ◯ **C.** 15

- ◯ **D.** 0.6

Question 7 Solve $2x + 5 = 1$.

- ◯ **A.** 3
- ◯ **B.** -2
- ◯ **C.** 2
- ◯ **D.** -3

Question 8 The sum of two consecutive integers is 31. What is the larger?

- ◯ **A.** 15
- ◯ **B.** 16
- ◯ **C.** 17
- ◯ **D.** 14

Question 9 A number is doubled and 7 is added. The result is 25. What is the number?

- ◯ **A.** 9
- ◯ **B.** 16
- ◯ **C.** 11
- ◯ **D.** 18

Question 10 Solve $7 - 2x = 1$.

- ◯ **A.** -3
- ◯ **B.** 3
- ◯ **C.** 4
- ◯ **D.** -4

Answer grid - Solving linear equations

Year: Year 8

Question	Answer	Explanation
1	**B**	Add 9.
2	**B**	$4x = 20$, $x = 5$.
3	**A**	$45 \div 6 = 7.5$.
4	**C**	$x - 2 = 5$, $x = 7$.
5	**C**	$3x = 12$, $x = 4$.
6	**C**	Multiply by 5.
7	**B**	$2x = -4$, $x = -2$.
8	**B**	$2n + 1 = 31$, $n = 15$, larger is 16.
9	**A**	$2x + 7 = 25$, $x = 9$.
10	**B**	$-2x = -6$, $x = 3$.