

Easy Questions with Answers

1. $x + 5 = 10$
Solution: $x = 10 - 5 = 5$
2. $2x = 14$
Solution: $x = \frac{14}{2} = 7$
3. $x - 3 = 7$
Solution: $x = 7 + 3 = 10$
4. $3x + 2 = 11$
Solution: $3x = 11 - 2 = 9$, $x = \frac{9}{3} = 3$
5. $4x - 8 = 0$
Solution: $4x = 8$, $x = \frac{8}{4} = 2$
6. $5 + 2x = 15$
Solution: $2x = 15 - 5 = 10$, $x = \frac{10}{2} = 5$
7. $6x = 18$
Solution: $x = \frac{18}{6} = 3$
8. $\frac{x}{4} = 3$
Solution: $x = 3 \times 4 = 12$
9. $10x = 100$
Solution: $x = \frac{100}{10} = 10$
10. $x - 6 = -4$
Solution: $x = -4 + 6 = 2$

Middle Level Questions with Answers

1. $2x + 3 = 9$
Solution: $2x = 9 - 3 = 6$, $x = \frac{6}{2} = 3$
2. $3x - 4 = 11$
Solution: $3x = 11 + 4 = 15$, $x = \frac{15}{3} = 5$
3. $5x + 2 = 22$
Solution: $5x = 22 - 2 = 20$, $x = \frac{20}{5} = 4$
4. $4(x - 1) = 8$
Solution: $4x - 4 = 8$, $4x = 12$, $x = \frac{12}{4} = 3$
5. $2x + 3 = 5x - 3$
Solution: $3 + 3 = 5x - 2x$, $6 = 3x$, $x = \frac{6}{3} = 2$
6. $3(x + 2) = 15$
Solution: $3x + 6 = 15$, $3x = 9$, $x = \frac{9}{3} = 3$

7. $6x - 4 = 3x + 8$
Solution: $6x - 3x = 8 + 4$, $3x = 12$, $x = \frac{12}{3} = 4$
8. $7x + 2 = 5x + 10$
Solution: $7x - 5x = 10 - 2$, $2x = 8$, $x = \frac{8}{2} = 4$
9. $4x - 5 = 3x + 9$
Solution: $4x - 3x = 9 + 5$, $x = 14$
10. $5(x - 3) = 20$
Solution: $5x - 15 = 20$, $5x = 35$, $x = \frac{35}{5} = 7$

Hard Questions with Answers

1. $4x + 3 - 2(x - 5) = 14$
Solution: $4x + 3 - 2x + 10 = 14$, $2x + 13 = 14$, $2x = 1$, $x = \frac{1}{2}$
2. $\frac{3x}{4} + 2 = 7$
Solution: $\frac{3x}{4} = 5$, $3x = 20$, $x = \frac{20}{3}$
3. $2(x + 3) = x + 10$
Solution: $2x + 6 = x + 10$, $2x - x = 10 - 6$, $x = 4$
4. $5x - (2x + 3) = 12$
Solution: $5x - 2x - 3 = 12$, $3x - 3 = 12$, $3x = 15$, $x = 5$
5. $6(x - 4) + 5x = 3(x + 2)$
Solution: $6x - 24 + 5x = 3x + 6$, $11x - 24 = 3x + 6$, $11x - 3x = 24 + 6$,
 $8x = 30$, $x = \frac{30}{8} = \frac{15}{4}$
6. $4(x - 2) + 2(x + 1) = 18$
Solution: $4x - 8 + 2x + 2 = 18$, $6x - 6 = 18$, $6x = 24$, $x = 4$
7. $7x - 5 = 3(x + 2)$
Solution: $7x - 5 = 3x + 6$, $7x - 3x = 6 + 5$, $4x = 11$, $x = \frac{11}{4}$
8. $3(x - 1) + 4(x + 2) = 30$
Solution: $3x - 3 + 4x + 8 = 30$, $7x + 5 = 30$, $7x = 25$, $x = \frac{25}{7}$
9. $\frac{x}{2} - \frac{x}{3} = 1$
Solution: $\frac{3x}{6} - \frac{2x}{6} = 1$, $\frac{x}{6} = 1$, $x = 6$
10. $2x - 5 + \frac{3x}{4} = 15$
Solution: $\frac{8x}{4} - \frac{20}{4} + \frac{3x}{4} = \frac{60}{4}$, $\frac{11x}{4} = \frac{80}{4}$, $11x = 80$, $x = \frac{80}{11}$