

Subject: Mathematics

Class: 7

Topic: Solving One-Step and Two-Step Equations

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Solve for x: $x + 15 = 40$. [?]
2. Find the value of y: $y - 22 = 18$.
3. Solve: $5m = 100$. ?
4. If $p / 4 = 12$, what is the value of p?
5. Arjun has some marbles. He gets 8 more and now has 25. Solve: $m + 8 = 25$.
6. Solve for z: $z + 2.5 = 10.0$.
7. A pen costs ₹12. If 3 pens cost ₹x, solve $3x = 36$ to find x. [?]
8. Solve: $14 - n = 6$.
9. Find a: $7a = 49$. ?
10. If $x + ₹50 = ₹120$, find the value of x.

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Level: Intermediate

1. Solve for x: $2x + 10 = 30$. [?]
2. Find y: $3y - 7 = 20$.
3. Solve: $(m / 2) + 5 = 15$. ?
4. Rahul spent ?200 on 4 notebooks and a ?40 compass. Solve: $4n + 40 = 200$.
5. Solve for p: $5p + 15 = 65$.
6. If $10 - 2z = 4$, what is the value of z? ?
7. Solve: $8k + 12 = 100$.
8. Anaya is x years old. Her father is $3x + 5 = 41$ years old. Find x.
9. Solve for q: $q/3 - 4 = 2$. ²
10. Find the value of ?: $10? + 50 = 150$.

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Level: Advanced

1. Solve for x: $4(x + 3) = 32$. [?]
2. Find the value of m: $7m - 3 = 3m + 17$.
3. Solve: $0.5x + 4.5 = 10.5$.
4. The perimeter of a square is $4(s + 2) = 40$ cm. Find s.
5. Solve for y: $2y/3 + 8 = 18$.
6. Sum of three consecutive integers is 33. Solve: $x + (x+1) + (x+2) = 33$.
7. Solve: $15 - 3(n - 2) = 6$. ?
8. A taxi charges ₹50 plus ₹12 per km. If total fare is ₹410, solve: $12k + 50 = 410$.
9. Solve for p: $(3p - 9) / 2 = 15$.
10. Find x if the area of a rectangle is length ? width: $5(x + 4) = 60$. ?