

Subject: Mathematics

Class: 8

Topic: Rational Numbers & Linear Equations

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Solve for x: $x + 5 = 12$. Answer: _____
2. Find the value of y if $y - 8 = ? 20$. Answer: _____
3. Identify the variable in the equation $4z = 16$. Answer: _____
4. Represent '5 more than a number n is 15' as an equation. Answer: _____
5. Solve: $2x = 10$. (Use ? to show your steps). Answer: _____
6. If $p / 3 = 7$, what is the value of p? Answer: _____
7. True or False: In the equation $3x + 2 = 8$, the LHS is $3x + 2$. Answer: _____
8. Solve for m: $m + 2.5 = 5.0$. Answer: _____
9. Anil has x marbles. He gets 10 more, totaling 25. Equation: _____
10. Solve: $x - 1/2 = 3/2$. Answer: _____

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Level: Intermediate

1. Solve for a: $2a + 7 = 15$. Answer: _____
2. Find x: $(x / 4) + 3 = 9$. Answer: _____
3. Solve: $3(n - 5) = 21$. Answer: _____
4. If $5y - 2 = 18$, then $y =$ _____.
5. Solve for z: $z/2 + z/3 = 5$. (Hint: Use ? as common denominator). Answer: _____
6. The sum of two numbers is 45. One is 5 more than the other. Find the smaller number. Answer: _____
7. Solve: $0.5x + 1.5 = 4.5$. Answer: _____
8. Rahul spent ? 100 on a book and has ? 50 left. If he started with ? x, find x. Answer: _____
9. Solve: $7x - 9 = 12$. Answer: _____
10. Find the value of ? if $2? + 10 = 50$. Answer: _____

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Level: Advanced

1. Solve for x: $(2x + 3) / 5 = (x - 1) / 2$. Answer: _____
2. The perimeter of a rectangle is 20cm. If length is x and width is 4cm, find x. Answer: _____
3. Solve: $5x/3 - 4 = 2x/3 + 8$. Answer: _____
4. Two-thirds of a number added to 10 gives 30. Find the number. Answer: _____
5. Solve for p: $0.25(4p - 3) = 0.5p - 0.75$. Answer: _____
6. A father is 3 times as old as his son. Sum of ages is 60. Find son's age. Answer: _____
7. Solve: $(x - 5) / 3 = (x - 3) / 5$. Answer: _____
8. Sum of three consecutive integers is 51. Find the middle integer. Answer: _____
9. Solve: $15(y - 4) - 2(y - 9) = 0$. Answer: _____
10. Find x: $(3x + 4) / (2 - 6x) = -2/5$. (Use ? symbol to mark your final step). Answer: _____