Subject: Mathematics

Class: 7

Topic: Forming Simple Linear Equations

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Write the equation: The sum of a number x and 5 is 12. [?]

2. Form an equation: 7 subtracted from a number y gives 20. [?]

3. Express as an equation: Ten times a number z is 70. [?]

4. Write the equation: A number b divided by 4 gives 8. [?]

5. Three-fourths of a number m is 15. Form the equation. [?]

6. The sum of three times a number n and 11 is 32. [?]

7. If you subtract 6 from 6 times a number x, you get 60. [?]

8. One-fifth of a number y minus 4 gives 3. [²]

9. Form the equation: 12 added to twice a number p results in 30.

10. The difference between a number k and 10 is 25. [?]

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Level: Intermediate

1. Aarav has ? 50 more than twice the amount Rohan has. If Rohan has ? x, total is ? 200.

2. Ananya's father is 49 years old. He is 4 years older than three times Ananya's age (y).

3. The perimeter of a square with side 's' is 40 cm. Form the equation. [?]

4. Sum of two consecutive integers is 53. If the first is x, write the equation.

5. In an isosceles triangle, the vertex angle is twice either base angle ?. Total sum is 180?.

6. Priya bought 3 pens for ? x each and a notebook for ? 20. Total bill was ? 50. [?]

7. The length of a rectangular park is 5m more than its breadth (b). Perimeter is 100m.

8. If you take away 7 from 5/2 of a number x, the result is 11/2. [?]

9. The score of Rahul is twice the score of Sachin. Together their runs are 198. [?]

10. Maya thinks of a number z. She adds 19 to it and divides the sum by 5 to get 8.

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Level: Advanced

1. A taxi driver charges ? 15 per km plus a fixed charge of ? 50. For x km, total is ? 450.

2. The sum of three consecutive multiples of 7 is 777. Let the first multiple be x. [?]

3. The numerator of a fraction is 3 less than its denominator (d). The fraction is 1/2.

4. A rectangular field has length (2x + 5) and breadth 10. Area is 150. Form the equation.

5. Arjun is 3 years older than Shriya. Five years ago, Arjun was twice Shriya's age (x).

6. A bag contains ? 5 and ? 10 coins. Total coins are 25. If ? 5 coins are x, total value is ? 200.

7. The weight of an apple is 50g more than a guava (g). 3 apples and 2 guavas weigh 1kg.

8. Subtracting 10% of a number x from the number itself gives 90. [10% = 1/10]

9. The sum of angles (x + 10)° and (2x - 40)° forms a linear pair (180°). Form the equation.

10. A number is such that it is as much greater than 20 as it is less than 60. Let number be n.