

<p>Problem</p>	<p>Given</p>
<p>Find</p>	<p>Answer</p>
<p>Solution</p>	<p>Conclusion</p>

1. Example

Two numbers are such that their sum is 100 and their difference is 40. Find the numbers.

Solution: Let the two numbers be x and y . Then, we have

$$x + y = 100$$

$$x - y = 40$$

Adding the two equations, we get

$$2x = 140$$

$$x = 70$$

Substituting the value of x in the first equation, we get

$$70 + y = 100$$

$$y = 30$$

∴ The two numbers are 70 and 30.

Example 1: The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.

Solution: Let the two numbers be x and y . Then, we have

$$x + y = 100$$

$$x = y + 20$$

Substituting the value of x in the first equation, we get

$$y + 20 + y = 100$$

$$2y + 20 = 100$$

$$2y = 80$$

$$y = 40$$

∴ The two numbers are 40 and 60.

2. Example on finding unknowns

1. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
2. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
3. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
4. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
5. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
6. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
7. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
8. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
9. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.
10. The sum of two numbers is 100. If one of the numbers is 20 more than the other, find the numbers.