

## Linear equation Exercise 2

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### Question 1

Three consecutive integers are as such when they are taken in increasing order and multiplied by 2, 3, and 4 respectively, they add up to 56. Find these numbers.

### Question 2

The perimeter of a rectangular swimming pool is 154 meters. Its length is 2m more than twice its breadth. What are the length and breadth of the pool?

### Question 3

Sum of two numbers is 95. If one exceeds the other by 15 find the numbers.

### Question 4

Two numbers are in the ration 4:3. If they differ by 18, find these numbers

### Question 5

Three consecutive integers add up to 57. What are these integers?

### Question 6

There is a narrow rectangular plot. The length and breadth of the plot are in the ratio of 11:4. At the rate of Rs. 100 per meter it will cost village panchayat Rs.75000 to fence the plot. What are the dimensions of the plot?

**Question 7**

Convert the following statements into equations.

- (a) 3 added to a number is 11
- (b) 2 subtracted from a number is equal to 15.
- (c) 3 times a number decreased by 2 is 4.
- (d) 2 times the sum of the number  $x$  and 7 is 13.

**Question 8**

Amina thinks of a number and subtracts  $\frac{5}{2}$  from it. She multiplies the result by 8. The final result is 3 times her original number. Find the number

**Question 9**

A number is 12 more than the other. Find the numbers if their sum is 48.

**Question 10**

The sum of three consecutive odd numbers is 51. Find the numbers.

**Question 11**

Jane is 6 years older than her younger sister. After 10 years, the sum of their ages will be 50 years. Find their present ages.

**Question 12**

The denominator of a fraction is greater than the numerator by 8. If the numerator is increased by 17 and denominator is decreased by 1, the number obtained is  $\frac{3}{2}$ , find the fraction.

**Question 13.**

A sum of Rs2700 is to be given in the form of 63 prizes. If the prize is of either Rs100 or Rs25, find the number of prizes of each type.

**Question 14.**

In an isosceles triangle, the base angles are equal and the vertex angle is  $80^\circ$ . Find the measure of the base angles.

**Question 15**

True and False statement

- a) The three consecutive positive integer can be written as  $x$ ,  $x+1$ ,  $x+2$  where  $x$  is any positive integer
- b) The cost of a pencil is 5 Rs more than the cost of an eraser. If the cost of 8 pencils and 10 erasers is Rs 130, then the cost of pencil is 10 Rs
- c) if  $2(x-13) = 14$ , then  $x=20$
- d) The shifting of one number from one side of linear equation to another side is called transposition
- e) The three consecutive multiple of 7 would  $7x, 7x+7, 7x+21$

**Question 16**

Fifteen years from now Ravi's age will be 4 times his current age. What is his current age?

- a) 4 year
- b) 5 years
- c) 6 years
- d) 3 years

**Question 17**

Ramesh is a cashier in a Canara bank. he has notes of denominations of Rs. 100, 50 and 10 respectively. The ratio of number of these notes is 2:3:5 respectively. The total cash with Ramesh is 4,00,000. How many notes of each denomination does he have?

- a) 2000 100's notes, 3000 50's notes and 5000 10's notes
- b) 4000 100's notes, 6000 50's notes and 10000 10's notes

- c) 1000 100's notes, 1500 50's notes and 2500 50's notes
- d) None of these

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