

## Q16

#### Answer:

Let the number of students be x.

Hence, the amount contributed by each student is Rs x.

Total amount contributed  $= x imes x = x^2 = 1156$ 

$$1156 = 2 \times 2 \times 17 \times 17$$
  
 $x = \sqrt{1156} = 2 \times 17 = 34$ 

Thus, the strength of the class is 34.

### Q17

#### Answer:

The smallest number divisible by each of these numbers is their L.C.M. L.C.M. of 6, 9, 15, 20 = 180

Resolving into prime factors:

$$180 = 2 \times 2 \times 3 \times 3 \times 5$$

To make it a perfect square, we multiply it with 5.

Required number =  $180 \times 5 = 900$ 

# Q18

#### Answer:

The smallest number divisible by each of these numbers is their L.C.M. L.C.M. of 8, 12, 15, 20 = 120

Resolving into prime factors:

 $120 = 2 \times 2 \times 2 \times 3 \times 5$ 

To make this into a perfect square, we need to multiply the number with  $2\times3\times5=30$ .

Required number =  $120 \times 30 = 3600$ 

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*