

**3. Give two examples of the following in the space provided:**

- (i) Raw Materials: \_\_\_\_\_ and \_\_\_\_\_
- (ii) End products: \_\_\_\_\_ and \_\_\_\_\_
- (iii) Tertiary Activities: \_\_\_\_\_ and \_\_\_\_\_
- (iv) Agro-based Industries: \_\_\_\_\_ and \_\_\_\_\_
- (v) Cottage Industries: \_\_\_\_\_ and \_\_\_\_\_
- (vi) Co-operatives: \_\_\_\_\_ and \_\_\_\_\_

## **2. Distinguish between the following.**

- (i) Agro-based and mineral based industry
- (ii) Public sector and joint sector industry

**6.** For each of the following numbers, find the smallest whole number by which it should be divided so as to get a perfect square. Also find the square root of the square number so obtained.

(iii)

396

(iv)

2645

- 7.** The students of Class VIII of a school donated ₹ 2401 in all, for Prime Minister's National Relief Fund. Each student donated as many rupees as the number of students in the class. Find the number of students in the class.

**Example 12:** Find the least number that must be added to 1300 so as to get a perfect square. Also find the square root of the perfect square.

Find the square root of 12.25.

**7.** In a right triangle  $ABC$ ,  $\angle B = 90^\circ$ .

(a) If  $AB = 6$  cm,  $BC = 8$  cm, find  $AC$

(b) If  $AC = 13$  cm,  $BC = 5$  cm, find  $AB$



**6.** Find the length of the side of a square whose area is  $441 \text{ m}^2$ .

**96.** Using prime factorisation, find the square roots of

(b)

4761

**37.** The square of 0.7 is \_\_\_\_\_.

**38.** The sum of first six odd natural numbers is \_\_\_\_\_.

**21.** A perfect square number having  $n$  digits where  $n$  is even will have square root with

- (a)  $n+1$  digit      (b)  $\frac{n}{2}$  digit      (c)  $\frac{n}{3}$  digit      (d)  $\frac{n+1}{2}$  digit

**10.** If one member of a pythagorean triplet is  $2m$ , then the other two members are

(a)  $m, m^2+1$

(b)  $m^2+1, m^2-1$

(c)  $m^2, m^2-1$

(d)  $m^2, m+1$

**95.** Write the Pythagorean triplet whose one of the numbers is 4.