VIDYA BHAWAN BALIKA VIDYA PITH

CLASS- 5                    DATE – 31. 05. 21

SUB -MATHS                    S. T -  PRAGYA

BASED ON N.C.E.R.T PATTERN

CH-  6

FACTORS  AND  MULTIPLES

Prime factoristion – prime factorisation

Expressing a number as the product of

Its prime factor is called prime factorisation .

Prime Factorisation- 1. Short division method

2. Factor tree method

Example  : Find the prime factorisation  of 330 .



Factor tree method

330
prime ← ③  ↘ 110
  prime ← ② ↘ 55
    prime ← ⑤ ↘ 11 → prime
330 = 2 × 3 × 5 × 11

The prime factorisation of 330 is 2 × 3 × 5 × 11

Short division method

| 2 | 330 |
|---|-----|
| 3 | 165 |
| 5 | 55 |
| 11 | 11 |
|   | 1 |

330 = 2 × 3 × 5 × 11

Now ,        PRACTICE SHEET

1. Find the prime factorisation of the following numbers.
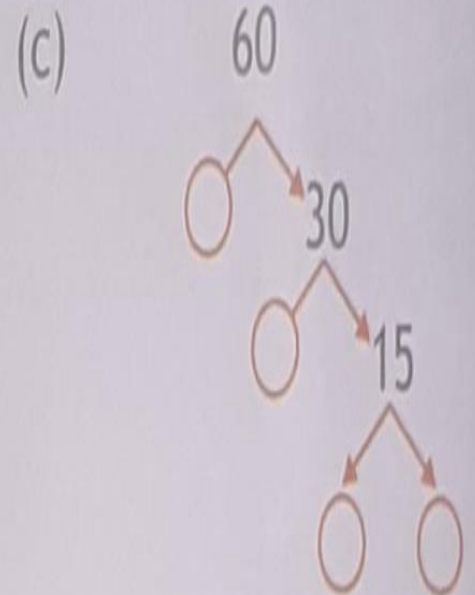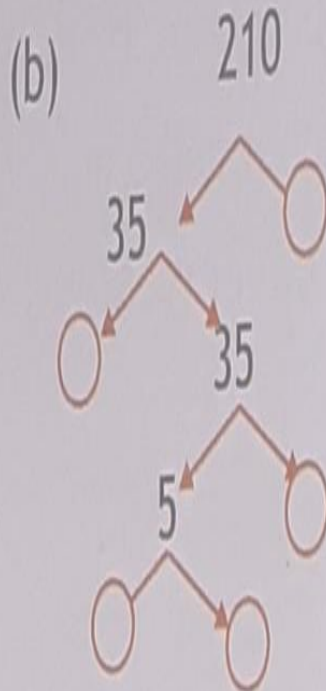
A. 36      B. 72      C. 85

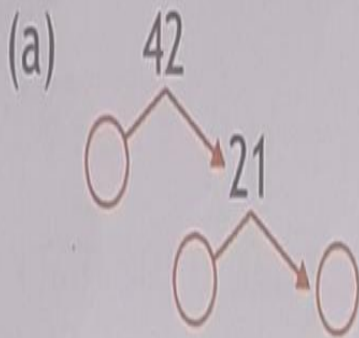D. 120      E. 172      F. 210

2. Complete the following factor trees .

37,908

5. Complete the following factor trees.

(a) 42

21

(b) 210

35

35

5

(c) 60

30

15

6. Check whether the first number is a factor of the second number or not.

*********