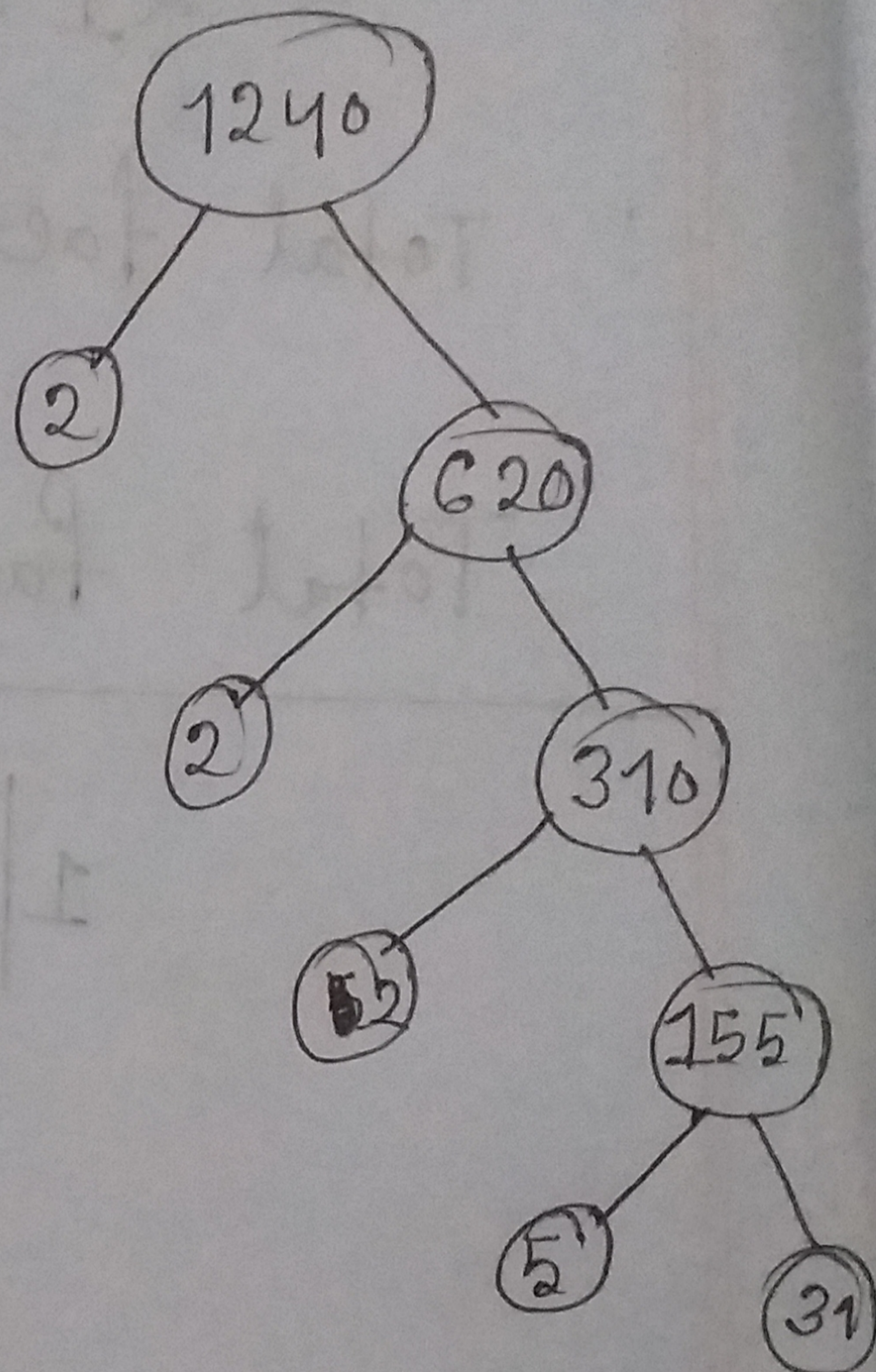


Exercise :01

Division Method :

$$\begin{array}{r} 2 \overline{) 1240} \\ \underline{2 \quad 620} \\ 2 \overline{) 310} \\ \underline{5 \quad 155} \\ 31 \end{array}$$

Tree diagram:

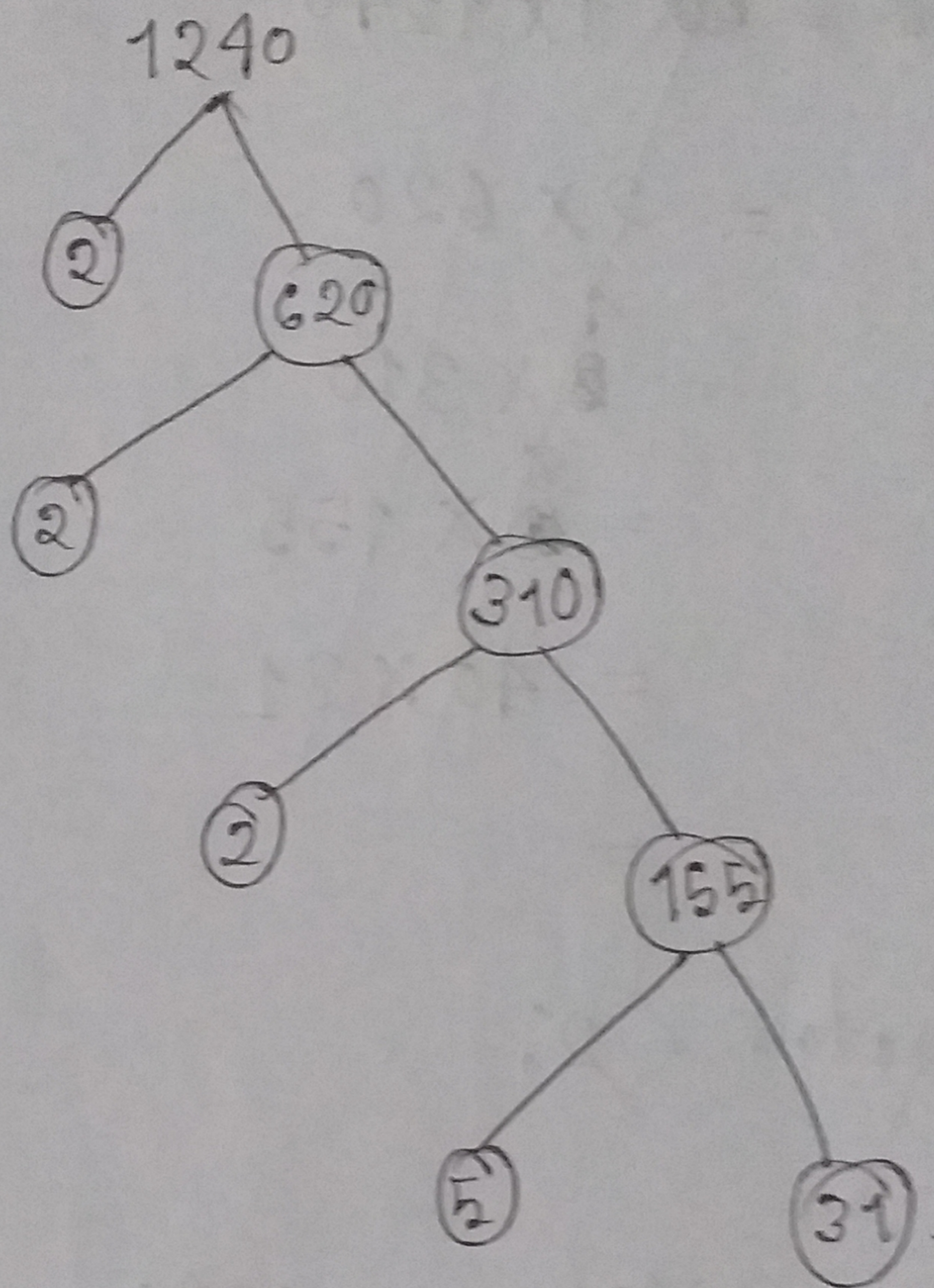


Multiplication Method :

$$\begin{aligned} 1240 &= 2 \times 620 \\ &= \cancel{4} \times 310 = 2^2 \times 310 \\ &= \cancel{8} \times 155 = 2^3 \times 155 \\ &= \cancel{5} \times 31 = 2^3 \times 5 \times 31. \end{aligned}$$

\therefore The prime factorization of 1240 is $= 2^3 \cdot 5 \cdot 31$

Exercise :02



\therefore The prime factorization of 1240 is $= 2^3 \cdot 5 \cdot 31$

So, the total numbers of factors of 1240 is

$$(3+1) \cdot (1+1) \cdot (1+1)$$

$$= 4 \cdot 2 \cdot 2$$

$$= 16$$

Ans

Exercise :03,04

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 8 \times 155$$

$$= 40 \times 31$$

$$= 20 \times 62$$

$$= 10 \times 124$$

$$= 5 \times 248$$

$\therefore 1, 2, 4, 8, 40, 20, 10, 5, 248, 124,$

$62, 31, 155, 310, 620, 1240.$

\therefore prime factor = $2, 5, 31.$

\therefore composite factor = $4, 8, 40, 20, 10, 248, 124,$

$62, 155, 310, 620, 1240.$

Ans

