

Exercise 2C

Answer:

We use the division method as shown below:

- 2 12
- 26
- 3 3

1

 $\therefore 12 = 2 \times 2 \times 3$ $= 2^2 \times 3$

Q2

Answer:

We will use the division method as shown below:

- 2 18
- 39
- 3 3

$$\therefore 18 = 2 \times 3 \times 3$$
$$= 2 \times 3^2$$

Q3

Answer:

We will use the division method as shown below:

- 2 48
- 2 24
- 2 12
- 26
- 3 3

$$\therefore 48 = 2 \times 2 \times 2 \times 2 \times 3$$
$$= 2^4 \times 3$$

Q4

Answer:

We will use the division method as shown below:

$$2 \begin{array}{|c|c|c|} 2 & 56 \\ 2 & 28 \\ \hline 2 & 14 \\ \hline 7 \\ \therefore 56 &= 2 \times 2 \times 2 \times 7 \\ &= 2^{3} \times 7 \end{array}$$

Q5

Answer:

We will use the division method as shown below:

- 2 90 3 45 3 15 5 5 1
- $\therefore 90 = 2 \times 3 \times 3 \times 5$ $= 2 \times 3^2 \times 5$

Q6

Answer:

We will use the division method as shown below:

$$\therefore 136 = 2 \times 2 \times 2 \times 17$$

= $2^3 \times 17$

Answer:

We will use the division method as shown below:

$$\therefore 252 = 2 \times 2 \times 3 \times 3 \times 7 \times 1$$
$$= 2^2 \times 3^2 \times 7 \times 1$$

Q8

Answer:

We will use the division method as shown below:

$$420 = 2 \times 2 \times 3 \times 7 \times 5 \times 1$$
$$= 2^{2} \times 3 \times 5 \times 7$$

Q9

Answer:

We will use the division method as shown below:

$$\therefore 637 = 7 \times 7 \times 13$$

= $7^2 \times 13$

Q10

Answer:

We will use the division method as shown below:

$$\therefore 945 = 3 \times 3 \times 3 \times 5 \times 7 \times 1$$
$$= 3^3 \times 5 \times 7$$

Q11

Answer:

We will use the division method as shown below:

$$1224 = 2 \times 2 \times 2 \times 3 \times 3 \times 17$$
$$= 2^{3} \times 3^{2} \times 17$$

****** END ******