Q12

Answer :

We will use the division method as shown below:

$$
\begin{array}{r|l}
3 & 1323 \\
\hline
3 & 441 \\
\hline
3 & 147 \\
\hline
7 & 49 \\
\hline
7 & 7 \\
\hline
& 1
\end{array}
$$

∴ 1323 = 3 × 3 × 3 ×7 × 7 × 1

$= 3^3 \times 7^2$

Q13

Answer :

We will use the division method as shown below:

$$
\begin{array}{r|l}
2 & 8712 \\
\hline
2 & 4356 \\
\hline
2 & 2178 \\
\hline
3 & 1089 \\
\hline
3 & 363 \\
\hline
11 & 121 \\
\hline
11 & 11 \\
\hline
& 1
\end{array}
$$

∴ 8712 = 2 × 2 × 2 × 3 × 3 × 11 × 11

$= 2^3 \times 3^2 \times 11^2$

Q14

Answer :

We will use the division method as shown below:

```
 7 | 9317
11 | 1331
11 | 121
11 | 11
     1
```

$\therefore 9317 = 7 \times 11 \times 11 \times 11$

$= 7 \times 11^3$

Q15

Answer :

We will use the division method as shown below:

```
 3 | 1035
 3 |  345
 5 |  115
23 |   23
   |    1
```

$\therefore 1035 = 3 \times 3 \times 5 \times 23$

$\quad\quad = 3^2 \times 5 \times 23$

Q16

Answer :

We will use the division method as shown below:

```
 3 | 1197
 3 |  399
 7 |  133
19 |   19
   |    1
```

$\therefore 1197 = 3 \times 3 \times 7 \times 19$

$\quad\quad = 3^2 \times 7 \times 19$

Q17

Answer :

We will use the division method as shown below:

```
 3 | 4641
 7 | 1547
13 |  221
17 |   17
   |    1
```

$\therefore 4614 = 3 \times 7 \times 13 \times 17$

Q18

Answer :

We will use the division method as shown below:

```
 3 | 4335
 5 | 1445
17 | 289
17 | 17
     1
```

$\therefore 4335 = 3 \times 5 \times 17 \times 17$
$\qquad = 3 \times 5 \times 17^2$

Q19

Answer :

We will use the division method as shown below:

```
 3 | 2907
 3 | 969
17 | 323
19 | 19
     1
```

$\therefore 2907 = 3 \times 3 \times 17 \times 19$
$\qquad = 3^2 \times 17 \times 19$

Q20

Answer :

We will use the division method as shown below:

```
 5 | 13915
11 | 2783
11 | 253
23 | 23
     1
```

$\therefore 13915 = 5 \times 11 \times 11 \times 23$
$\qquad = 3 \times 11^2 \times 23$

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