

Exercise 2C

Q12

## Answer:

We will use the division method as shown below:

- 3 1323
- 3 441
- 3 147
- 7 49
- 7 7

1

∴ 
$$1323 = 3 \times 3 \times 3 \times 7 \times 7 \times 1$$
  
= $3^3 \times 7^2$ 

# Q13

### Answer:

We will use the division method as shown below:

- 2 8712
- 2 4356
- 2 2178
- 3 1089
- 3 363
- 11 121
- 11 11 1

$$\therefore 8712 = 2 \times 2 \times 2 \times 3 \times 3 \times 11 \times 11$$
$$= 2^{3} \times 3^{2} \times 11^{2}$$

Q14

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#### Answer:

We will use the division method as shown below:

$$7 | 9317$$
 $11 | 1331$ 
 $11 | 121$ 
 $11 | 11$ 
 $1$ 
 $1 | 9317 = 7 \times 11 \times 11 \times 11$ 
 $= 7 \times 11^{3}$ 

# Q15

#### Answer:

We will use the division method as shown below:

$$3 \ 1035$$
 $3 \ 345$ 
 $5 \ 115$ 
 $23 \ 23$ 
 $1$ 

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

$$= 3^{2} \times 5 \times 23$$

### Q16

### Answer:

We will use the division method as shown below:

$$3 | 1197$$
 $3 | 399$ 
 $7 | 133$ 
 $19 | 19$ 
 $1$ 
 $\therefore 1197 = 3 \times 3 \times 7 \times 19$ 
 $= 3^2 \times 7 \times 19$ 

# Q17

#### Answer:

We will use the division method as shown below:

# Q18

### Answer:

We will use the division method as shown below:

$$3 \ 4335$$
 $5 \ 1445$ 
 $17 \ 289$ 
 $17 \ 17$ 
 $1$ 
 $\therefore 4335 = 3 \times 5 \times 17 \times 17$ 
 $= 3 \times 5 \times 17^{2}$ 

## Q19

### Answer:

We will use the division method as shown below:

$$3 | 2907$$
 $3 | 969$ 
 $17 | 323$ 
 $19 | 19$ 
 $1$ 
 $\therefore 2907 = 3 \times 3 \times 17 \times 19$ 
 $= 3^2 \times 17 \times 19$ 

## Q20

#### Answer:

We will use the division method as shown below:

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