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## NCERT Class 10 Solutions: Real Numbers (Chapter 1) Exercise 1.2 Part 1

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Q-1 Express each number as product of its prime factors:

1. 140
2. 156
3. 3825
4. 5005
5. 7429

## Solution:

1. 140
$140=2 \times 70$
$=2 \times 2 \times 35$
$=2 \times 2 \times 5 \times 7$
$=2^{2} \times 5 \times 7$

2. 156

$$
\begin{aligned}
& 156=2 \times 78 \\
& =2 \times 2 \times 39 \\
& =2 \times 2 \times 13 \times 3 \\
& =2^{2} \times 3 \times 13
\end{aligned}
$$



1. 3825

$$
\begin{aligned}
& 3825=3 \times 1275 \\
& =3 \times 3 \times 425 \\
& =3 \times 3 \times 5 \times 85 \\
& =3 \times 3 \times 5 \times 5 \times 17 \\
& 3^{2} \times 5^{2} \times 17
\end{aligned}
$$



1. 5005

$$
\begin{aligned}
& 5005=5 \times 1001 \\
& =5 \times 7 \times 143 \\
& =5 \times 7 \times 11 \times 13
\end{aligned}
$$



1. 7429
$7429=17 \times 437$
$=17 \times 19 \times 23$

