## Exercise 10

In the following exercises, find the prime factorization.
400

## Solution

400 is an even number, so one of its factors is 2 .

$$
\begin{aligned}
400 & =2 \times 200 \\
& =2 \times 2 \times 100 \\
& =2 \times 2 \times 2 \times 50 \\
& =2 \times 2 \times 2 \times 2 \times 25 \\
& =2 \times 2 \times 2 \times 2 \times 5 \times 5
\end{aligned}
$$

