## Exercise 11

In the following exercises, find the prime factorization. 432

## Solution

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

$$
\begin{aligned}
432 & =2 \times 216 \\
& =2 \times 2 \times 108 \\
& =2 \times 2 \times 2 \times 54 \\
& =2 \times 2 \times 2 \times 6 \times 9 \\
& =2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3
\end{aligned}
$$

