Exercise 11

In the following exercises, find the prime factorization.

432

Solution

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

$$432 = 2 \times 216$$

$$= 2 \times 2 \times 108$$

$$= 2 \times 2 \times 2 \times 54$$

$$= 2 \times 2 \times 2 \times 6 \times 9$$

$$= 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3$$