

Write 46 as a product of primes.

Primes:

2, 3, 5, 7... 23

$$\begin{array}{r} 23 \\ 2 \overline{) 46} \\ \underline{4} \phantom{0} \\ 06 \\ \underline{-6} \\ 0 \end{array}$$

$$\begin{array}{c} 46 \\ \swarrow \quad \searrow \\ 2 \times 23 \end{array}$$

prime

$$2 \times 23$$

a number that is divisible only by itself and 1.