

Zadatak 43.

Napiši umnožak brojeva $a = 0.9\dot{1}\dot{6}$ i $b = 0.\dot{3}\dot{6}$ u obliku razlomka.

Rješenje.

Prikažimo brojeve a i b u obliku razlomka.

$$a = 0.9\dot{1}\dot{6} = 0.91 + \frac{0.\dot{6}}{100} = \frac{91}{100} + \frac{6}{900} = \frac{91}{100} + \frac{1}{150} = \frac{273+2}{300} = \frac{11}{12};$$

$$b = 0.\dot{3}\dot{6} = \frac{36}{99} = \frac{4}{11}.$$

Sada imamo

$$a \cdot b = \frac{11}{12} \cdot \frac{4}{11} = \frac{1}{3}.$$