

1.

$$\frac{2\sqrt{3}}{\sqrt{3 - \sqrt{2}}} = \frac{2\sqrt{3}(\sqrt{3} + \sqrt{2})}{3 - 2} = 6 + 2\sqrt{6} = 10,899.$$

2.

$$\frac{(3 + \sqrt{3})(1 + \sqrt{5})}{(5 + \sqrt{5})(1 + \sqrt{3})} = \frac{(3 + \sqrt{3})(1 + \sqrt{5})(5 - \sqrt{5})(1 - \sqrt{3})}{(25 - 5)(1 - 3)} = \frac{2\sqrt{3} \cdot 4\sqrt{5}}{40} = \frac{\sqrt{15}}{5} = 0,775.$$

(Fried Ernő, Budapest.)

Megoldások száma: 26.