

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.