

NÉGYZETGYÖKVONÁS

1. $\sqrt{8} \cdot \sqrt{2} =$

2. $\sqrt{2} \cdot \sqrt{18} =$

3. $\sqrt{50} \cdot \sqrt{2} =$

4. $\sqrt{3} \cdot \sqrt{12} =$

5. $\sqrt{3} \cdot \sqrt{\frac{4}{3}} =$

6. $\sqrt{27} \cdot \sqrt{\frac{16}{3}} =$

7. $\sqrt{20} \cdot \sqrt{\frac{9}{5}} =$

8. $\sqrt{18} \cdot \sqrt{\frac{9}{2}} =$

9. $\sqrt{\frac{25}{2}} \cdot \sqrt{8} =$

10. $\sqrt{\frac{18}{3}} \cdot \sqrt{6} =$

11. $\sqrt{\frac{50}{7}} \cdot \sqrt{14} =$

12. $\sqrt{\frac{8}{5}} \cdot \sqrt{10} =$

13. $\sqrt{\frac{45}{8}} \cdot \sqrt{\frac{8}{5}} =$

14. $\sqrt{\frac{32}{3}} \cdot \sqrt{\frac{3}{8}} =$

15. $\sqrt{\frac{20}{3}} \cdot \sqrt{\frac{27}{5}} =$

$$16. \sqrt{\frac{27}{2}} \cdot \sqrt{\frac{8}{3}} =$$

$$17. \frac{\sqrt{48}}{\sqrt{12}} =$$

$$18. \frac{\sqrt{54}}{\sqrt{6}} =$$

$$19. \frac{\sqrt{50}}{\sqrt{2}} =$$

$$20. \frac{\sqrt{32}}{\sqrt{8}} =$$

$$21. \frac{\sqrt{\frac{27}{4}}}{\sqrt{3}} =$$

$$22. \frac{\sqrt{\frac{12}{9}}}{\sqrt{3}} =$$

$$23. \frac{\sqrt{\frac{45}{36}}}{\sqrt{5}} =$$

$$24. \frac{\sqrt{\frac{72}{49}}}{\sqrt{8}} =$$

$$25. \sqrt{9^3} =$$

$$26. \sqrt{4^5} =$$

$$27. \sqrt{\left(\frac{9}{16}\right)^3} =$$

$$28. \sqrt{\left(\frac{4}{9}\right)^3} =$$

Melyik nagyobb?

29. $2\sqrt{3}$ vagy $3\sqrt{2}$

30. $5\sqrt{3}$ vagy $6\sqrt{2}$

31. $4\sqrt{2}$ vagy $2\sqrt{7}$

32. $5\sqrt{2}$ vagy $4\sqrt{3}$

Rendezd sorrendbe!

$4\sqrt{2}$ $3\sqrt{3}$ $3\sqrt{5}$ $2\sqrt{6}$ $\frac{3}{2}\sqrt{8}$

$2\sqrt{12}$ 7 $3\sqrt{8}$ $4\sqrt{5}$ $\frac{4}{3}\sqrt{18}$

Írd fel a legegyszerűbb formában!

33. $3\sqrt{2} - \sqrt{8} + \sqrt{50} - 2\sqrt{32} =$

34. $4\sqrt{27} - 5\sqrt{3} + \sqrt{75} - 2\sqrt{12} =$

35. $3\sqrt{125} - 2\sqrt{5} + \sqrt{45} - 4\sqrt{20} =$

36. $3\sqrt{63} - \sqrt{28} + 5\sqrt{7} - \sqrt{700} =$

Gyöktelenítsd az alábbi törtek nevezőjét!

37. $\frac{1}{\sqrt{3}}$

38. $\frac{3}{\sqrt{2}}$

39. $\frac{7}{\sqrt{7}}$

$$40. \frac{5}{2\sqrt{3}}$$

$$41. \frac{5\sqrt{3}}{\sqrt{2}}$$

$$42. \frac{3}{\sqrt{2}-1}$$

$$43. \frac{2}{\sqrt{3}-1}$$

$$44. \frac{8}{\sqrt{5}+1}$$

$$45. \frac{18}{4-\sqrt{7}}$$

$$46. \frac{30}{6+\sqrt{21}}$$

$$47. \frac{6}{2\sqrt{3}-3}$$

$$48. \frac{8}{3\sqrt{2}+4}$$

$$49. \frac{12}{\sqrt{10}+\sqrt{6}}$$

$$50. \frac{12}{\sqrt{8}-\sqrt{12}}$$

$$51. \frac{\sqrt{2}}{\sqrt{2}+3}$$

$$52. \frac{\sqrt{2}-1}{\sqrt{2}+1}$$

$$53. \frac{\sqrt{3}+2}{\sqrt{3}-2}$$