

List the numbers that are “perfect” squares:

Simplify the following square roots: (Find the biggest number on the list that goes into the number and break it down)

1. $\sqrt{20}$

2. $\sqrt{40}$

3. $\sqrt{99}$

4. $\sqrt{108}$

5. $\sqrt{420}$

6. $\sqrt{45}$

7. $\sqrt{147}$

8. $\sqrt{72}$

9. $\sqrt{75}$

10. $\sqrt{80}$

11. $\sqrt{1000}$

12. $\sqrt{150}$

13. $3\sqrt{4}$

14. $2\sqrt{12}$

15. $5\sqrt{8}$

16. $3\sqrt{150}$

Products of Radicals (Multiply together and then take apart...remember $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$)

17. $\sqrt{60} \cdot \sqrt{5}$

18. $\sqrt{6} \cdot \sqrt{10}$

19. $\sqrt{50} \cdot \sqrt{12}$

20. $\sqrt{8} \cdot \sqrt{3}$

21. $(\sqrt{8})(\sqrt{6})$

22. $(2\sqrt{5})(3\sqrt{4})$

23. $(2\sqrt{12})(3\sqrt{3})$

24. $2\sqrt{5} \cdot \sqrt{60}$

25. $\sqrt{12} \cdot \sqrt{50}$

26. $2\sqrt{3} \cdot 3\sqrt{4}$

27. $3\sqrt{5} \cdot 4\sqrt{20}$