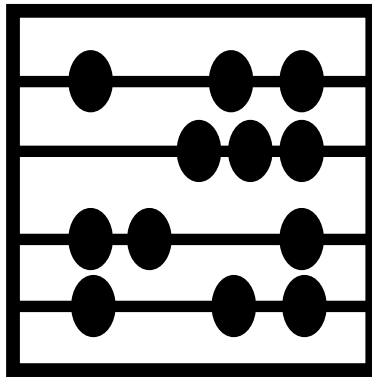

Reducing Roots



Algebra 1

Practice Worksheet

Practice you can't find anywhere else

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Reduce the following roots to their most basic form.

Type 1: Square Roots of Positive Integers

1. $\sqrt{4}$

2. $\sqrt{25}$

3. $\sqrt{81}$

4. $\sqrt{144}$

5. $\sqrt{289}$

6. $\sqrt{441}$

...

7. $\sqrt{8}$

8. $\sqrt{27}$

9. $\sqrt{125}$

10. $\sqrt{45}$

11. $\sqrt{75}$

12. $\sqrt{175}$



13. $\sqrt{68}$

14. $\sqrt{207}$

15. $\sqrt{294}$

16. $\sqrt{350}$

...

17. $\sqrt{24}$

18. $\sqrt{60}$

19. $\sqrt{40}$

20. $\sqrt{56}$

21. $\sqrt{189}$

22. $\sqrt{135}$

23. $\sqrt{198}$

24. $\sqrt{264}$



25. $\sqrt{270}$

26. $\sqrt{480}$

27. $\sqrt{420}$

28. $\sqrt{378}$

29. $\sqrt{456}$

30. $\sqrt{594}$

...

31. $\sqrt{48}$

32. $\sqrt{72}$

33. $\sqrt{108}$

34. $\sqrt{176}$

35. $\sqrt{208}$

36. $\sqrt{300}$



37. $\sqrt{392}$

38. $\sqrt{450}$

...

39. $\sqrt{96}$

40. $\sqrt{160}$

41. $\sqrt{1000}$

42. $\sqrt{216}$

43. $\sqrt{540}$

44. $\sqrt{600}$

45. $\sqrt{756}$

46. $\sqrt{810}$

...

47. $\sqrt{128}$

48. $\sqrt{432}$



49. $\sqrt{720}$

50. $\sqrt{1008}$

51. $\sqrt{972}$

52. $\sqrt{2448}$

53. $\sqrt{1440}$

54. $\sqrt{2400}$

55. $\sqrt{1944}$

56. $\sqrt{2688}$

57. $\sqrt{6720}$

58. $\sqrt{7040}$

59. $\sqrt{9504}$

60. $\sqrt{9720}$

Type 1: Square Roots of Positive Integers

1. 2

2. 5

3. 9

4. 12

5. 17

6. 21

7. $2\sqrt{2}$

8. $3\sqrt{3}$

9. $5\sqrt{5}$

10. $3\sqrt{5}$

11. $5\sqrt{3}$

12. $5\sqrt{7}$

13. $2\sqrt{17}$

14. $3\sqrt{23}$

15. $7\sqrt{6}$

16. $5\sqrt{14}$

17. $2\sqrt{6}$

18. $2\sqrt{15}$

19. $2\sqrt{10}$

20. $2\sqrt{14}$



21. $3\sqrt{21}$

22. $3\sqrt{15}$

23. $3\sqrt{22}$

24. $2\sqrt{66}$

25. $3\sqrt{30}$

26. $4\sqrt{30}$

27. $2\sqrt{105}$

28. $3\sqrt{42}$

29. $2\sqrt{114}$

30. $3\sqrt{66}$

31. $4\sqrt{3}$

32. $6\sqrt{2}$

33. $6\sqrt{3}$

34. $4\sqrt{11}$

35. $4\sqrt{13}$

36. $10\sqrt{3}$

37. $14\sqrt{2}$

38. $15\sqrt{2}$

39. $4\sqrt{6}$

40. $4\sqrt{10}$

41. $10\sqrt{10}$



42. $6\sqrt{6}$

43. $6\sqrt{15}$

44. $10\sqrt{6}$

45. $6\sqrt{21}$

46. $9\sqrt{10}$

47. $8\sqrt{2}$

48. $12\sqrt{3}$

49. $12\sqrt{5}$

50. $12\sqrt{7}$

51. $18\sqrt{3}$

52. $12\sqrt{17}$

53. $12\sqrt{10}$

54. $20\sqrt{6}$

55. $18\sqrt{6}$

56. $8\sqrt{42}$

57. $8\sqrt{105}$

58. $8\sqrt{110}$

59. $12\sqrt{66}$

60. $18\sqrt{30}$