

REAL NUMBERS AND SURDS

Simplify all the expressions in this exercise, writing each answer with a rational denominator (or no denominator).

1 $\sqrt{8}$

2 $\sqrt{20}$

3 $\sqrt{27}$

4 $\sqrt{32}$

6 $\sqrt{45}$

7 $\sqrt{72}$

8 $\sqrt{84}$

9 $\sqrt{98}$

10 $\sqrt{108}$

11 $\sqrt{125}$

12 $\sqrt{162}$

13 $\sqrt{200}$

14 $5\sqrt{128}$

15 $4\sqrt{800}$

16 $2\sqrt{150}$

17 $3\sqrt{52}$

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25 $\sqrt{3} \times \sqrt{5}$

26 $\sqrt{8} \times \sqrt{2}$

27 $\sqrt{6} \times \sqrt{2}$

28 $\sqrt{6} \times \sqrt{10}$

29 $2\sqrt{3} \times 4\sqrt{2}$

35 $2\sqrt{8} \times \sqrt{12}$

36 $4\sqrt{5} \times \sqrt{20}$

37 $\frac{\sqrt{3}}{\sqrt{2}}$

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

39 $\frac{\sqrt{28}}{\sqrt{7}}$

40 $\frac{7}{\sqrt{7}}$

41 $\frac{\sqrt{80}}{\sqrt{5}}$

42 $\frac{3\sqrt{2}}{\sqrt{6}}$

43 $\frac{7\sqrt{2}}{\sqrt{98}}$

44 $\frac{2\sqrt{18}}{\sqrt{8}}$