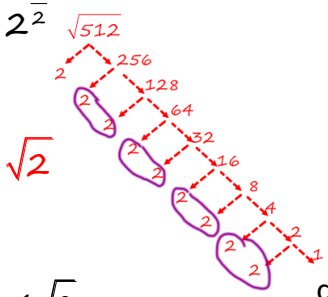
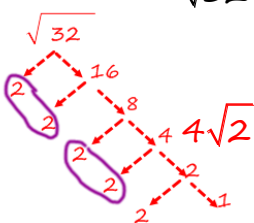
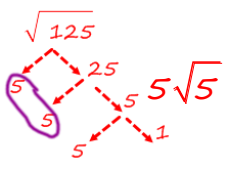
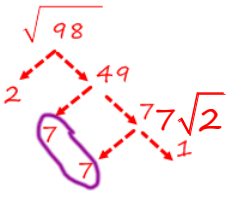
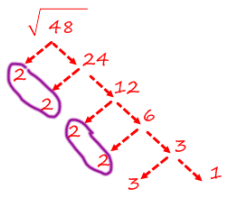
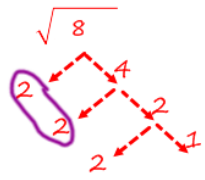
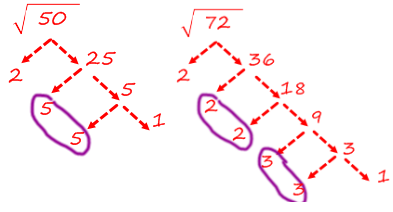
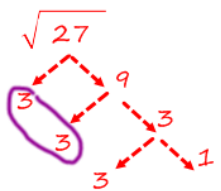
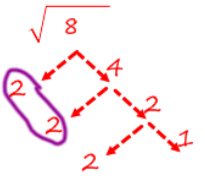


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Exercices : Simplifie les radicaux

- a) $2^{\frac{1}{2}}$  $\sqrt{2}$
- b) $8^{\frac{3}{2}} = \sqrt{8^3} = \sqrt{512}$ $2 \times 2 \times 2 \times 2\sqrt{2} = 16\sqrt{2}$
- c) $\frac{15^{\frac{1}{2}}}{\sqrt{3}} = \sqrt{5}$
- d) $\frac{\sqrt{20}}{\sqrt{2}} = \sqrt{10}$
- e) $\frac{\sqrt{15}}{\sqrt{5}} = \sqrt{3}$
- f) $\frac{4\sqrt{8}}{2\sqrt{2}} = \frac{2\sqrt{4}}{2} = 2 \times 2 = 4$
- g) $\frac{34\sqrt{21}}{2\sqrt{3}} = 17\sqrt{7}$ 
- h) $\sqrt{32} = 4\sqrt{2}$
- i) $\sqrt{125} = 5\sqrt{5}$ 
- j) $\sqrt{98} = 7\sqrt{2}$ 
- k) $\sqrt{48} = 4\sqrt{3}$ 
- l) $\sqrt{2} + \sqrt{8} = \sqrt{2} + 2\sqrt{2} = 3\sqrt{2}$ 
- m) $\sqrt{50} + \sqrt{72} = 5\sqrt{2} + 6\sqrt{2} = 11\sqrt{2}$ 
- n) $\sqrt{50} \times \sqrt{72} = 5\sqrt{2} \times 6\sqrt{2} = 30\sqrt{4} = 60$
- o) $\sqrt{3} + \sqrt{27} = \sqrt{3} + 3\sqrt{3} = 4\sqrt{3}$ 
- p) $2\sqrt{2} + 3\sqrt{8} = 2\sqrt{2} + 3 \times 2\sqrt{2} = 8\sqrt{2}$ 
- q) $5\sqrt{3} - 2\sqrt{12} = 5\sqrt{3} - 4\sqrt{3} = \sqrt{3}$
- r) $2\sqrt{75} \times 3\sqrt{3} = 10\sqrt{3} \times 3\sqrt{3} = 30\sqrt{9} = 90$
- s) $\frac{\sqrt{18}}{\sqrt{50}} \times \frac{\sqrt{75}}{\sqrt{63}} \times \frac{\sqrt{21}}{\sqrt{27}} = \frac{3\sqrt{2} \times 5\sqrt{3} \times \sqrt{21}}{5\sqrt{2} \times 3\sqrt{7} \times 3\sqrt{3}} = \frac{\sqrt{21}}{3\sqrt{7}} = \frac{\sqrt{3}}{3}$