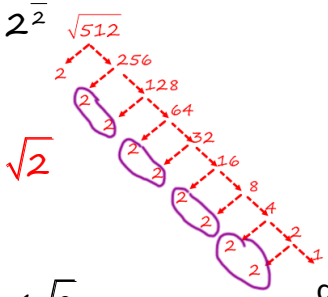
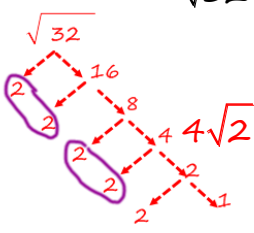
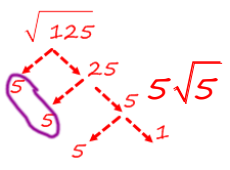
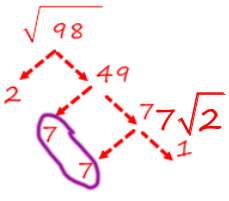
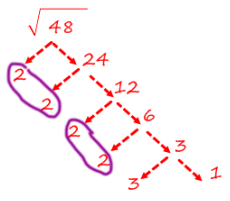
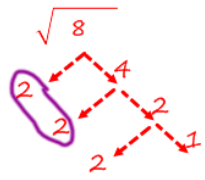
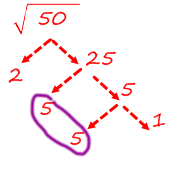
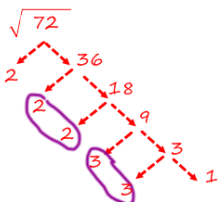
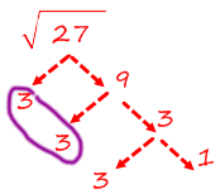
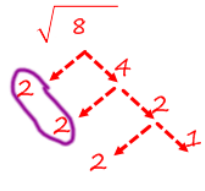


\*\*\*Pages 8 - feuillet

Exercices : Simplifie les radicaux

- a)  $2^{\frac{1}{2}}$    $2 \times 2 \times 2 \times 2 \sqrt{2} = 16\sqrt{2}$
- b)  $8^{\frac{3}{2}} = \sqrt{8^3} = \sqrt{512}$
- 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)  $2\sqrt{2} + 3\sqrt{8} = \sqrt{2} + 3 \times 2\sqrt{2} = 7\sqrt{2}$  
- 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)  $\frac{\sqrt{18}}{\sqrt{50}} \times \frac{\sqrt{75}}{\sqrt{63}} \times \frac{\sqrt{21}}{\sqrt{27}} = \frac{3\sqrt{2} \times 5\sqrt{3} \times \sqrt{21}}{5\sqrt{2} \times 3\sqrt{7} \times 3\sqrt{3}} = \frac{\sqrt{21}}{3\sqrt{3}} = \frac{\sqrt{7}}{3}$