

Effectuer des calculs sur les racines carrées

Écrire le plus simplement possible :

$$A = \sqrt{32} \times \sqrt{2}$$

$$B = \sqrt{3} \times \sqrt{27}$$

$$C = \sqrt{3} \times \sqrt{36} \times \sqrt{3}$$

$$D = \frac{\sqrt{98}}{\sqrt{2}}$$

$$E = \frac{\sqrt{50}}{\sqrt{72}}$$

$$F = (4\sqrt{5})^2$$

$$G = \frac{\sqrt{32} \times \sqrt{10}}{\sqrt{80}}$$

Correction

$$A = \sqrt{32} \times \sqrt{2} = \sqrt{32 \times 2} = \sqrt{64} = 8$$

$$B = \sqrt{3} \times \sqrt{27} = \sqrt{3 \times 27} = \sqrt{81} = 9$$

$$C = \sqrt{3} \times \sqrt{36} \times \sqrt{3} = \sqrt{3 \times 3} \times \sqrt{36} = \sqrt{9} \times \sqrt{36} = 3 \times 6 = 18$$

$$D = \frac{\sqrt{98}}{\sqrt{2}} = \sqrt{\frac{98}{2}} = \sqrt{49} = 7$$

$$E = \frac{\sqrt{50}}{\sqrt{72}} = \sqrt{\frac{50}{72}} = \sqrt{\frac{25}{36}} = \frac{\sqrt{25}}{\sqrt{36}} = \frac{5}{6}$$

$$F = (4\sqrt{5})^2 = 4^2 \times (\sqrt{5})^2 = 16 \times 5 = 80$$

$$G = \frac{\sqrt{32} \times \sqrt{10}}{\sqrt{80}} = \sqrt{\frac{32 \times 10}{80}} = \sqrt{4} = 2$$