

## FRACCIONES

Problema 25:

Resolver

$$\sqrt{\frac{\frac{1}{4} + 0,5 + \frac{2}{5} + 3,19 + \frac{1}{2}}{\frac{2}{3} \times 6 \times 3 \frac{2}{5} \times 5 \times \frac{1}{17}}}$$

Solución Problema 25:

Convertimos las fracciones decimales en ordinarias:

$$0,5 = \frac{5}{10} = \frac{\cancel{5}}{\cancel{5} \times 2} = \frac{1}{2}$$

$$3,19 = \frac{319}{100}$$

Convertimos los números mixtos en fracciones ordinarias:

$$3\frac{2}{5} = \frac{15 + 2}{5} = \frac{17}{5}$$

Sustituimos sus valores en la fracción original y operamos en ella:

$$\sqrt{\frac{\frac{1}{4} + \frac{1}{2} + \frac{2}{5} + \frac{319}{100} + \frac{1}{2}}{\frac{2}{3} \times 6 \times \frac{17}{5} \times 5 \times \frac{1}{17}}}$$

$$\sqrt{\frac{\frac{1}{4} + \frac{1}{2} + \frac{2}{5} + \frac{319}{100} + \frac{1}{2}}{\frac{2}{3} \times 2 \times 3 \times \frac{17}{5} \times 5 \times \frac{1}{17}}}$$

$$\sqrt{\frac{\frac{1}{4} + \frac{1}{2} + \frac{2}{5} + \frac{319}{100} + \frac{1}{2}}{\frac{2}{3} \times 2 \times 3 \times \frac{17}{5} \times 5 \times \frac{1}{17}}}$$

$$\sqrt{\frac{\frac{1 \times 25 + 1 \times 50 + 2 \times 20 + 1 \times 319 + 1 \times 50}{100}}{4}}$$

$$\sqrt{\frac{\frac{25 + 50 + 40 + 319 + 50}{100}}{4}}$$

$$\sqrt{\frac{484}{4 \times 100}} = \sqrt{\frac{22 \times 22}{2 \times 2 \times 10 \times 10}} = \frac{22}{2 \times 10} = \frac{\cancel{2} \times 11}{\cancel{2} \times 10} = \frac{11}{10}$$