

Class 11 - Activities

Grupo 24).

11.d.1.1) ex. Preser en Forma decimal.

$$c) \frac{5}{11} = 0,45$$

11.d.1.2) expresar en forma racional.

11.d.1.3) Resolver los siguientes cálculos combinados y expresar el resultado como número racional con su mínima expresión.

d) $\sqrt{\frac{0,8}{(0,007)^2}} = \sqrt{\frac{8}{9}} = \frac{\sqrt{8}}{\sqrt{9}} = \frac{2\sqrt{2}}{3}$

$$\sqrt{90} = \sqrt{10 \cdot 9} = 3\sqrt{10}$$

$$\times \frac{1000}{7} \cdot \frac{\sqrt{2}}{\sqrt{7}} = \frac{10000}{7} \cdot \frac{\sqrt{14}}{7} = \frac{10000 \sqrt{14}}{49}$$

$$\frac{\sqrt{2}}{\sqrt{7}} = \frac{\sqrt{2}}{\sqrt{7}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{4}}{\sqrt{14}} = \frac{2}{\sqrt{14}}$$

$$c) \quad \frac{(0,54 + \frac{2}{5})^2}{0,108} = \frac{(\frac{49}{50} + \frac{2}{5})^2}{49}$$

$$\frac{(\frac{49+20}{50})^2}{49} = \frac{(\frac{69}{50})^2}{49} = \frac{4761}{122500}$$

$$\frac{(\frac{103}{90})^2 \cdot \frac{450}{49}}{128} = \frac{103 \cdot 103 \cdot 450}{90 \cdot 90 \cdot 128 \cdot 49}$$

$$\frac{10009}{882}$$

$$24x = x + 0,54$$

$$10x = 0,54 \cdot 10$$

$$100x = 5,4$$

$$100x = 0,54 \cdot 100$$

$$1000x = 54,4$$

$$100x = 54,4$$

$$10x = 5,44$$

$$90x = 49$$

$$x = \frac{49}{90}$$

$$90$$

$$x = 0,108$$

$$100x = 0,108 \cdot 100$$

$$100x = 10,8$$

$$1000x = 0,108 \cdot 1000$$

$$1000x = 108,8$$

$$10000x = 1088,8$$

$$10000x = 10,88$$

$$90x = 98$$

$$x = \frac{98}{90} = \frac{49}{45}$$

$$\frac{49}{45}$$

II. d. 1.4. Guía de ejercicios con operaciones de números racionales.

$$d) \frac{4}{5} \cdot \left(\frac{7}{3} + \frac{5}{4} \right)$$

$$= \frac{4}{5} \cdot \left(\frac{28}{12} + \frac{15}{12} \right) = \frac{4}{5} \cdot \frac{43}{12} = \frac{4}{5} \cdot \frac{12}{1} = \frac{48}{5}$$

$$g) \frac{2}{8} - \frac{1}{5} + \frac{1}{21} \left(\frac{9}{4} - \frac{2}{5} \right) =$$

$$(1) \frac{2}{5} - \frac{1}{9} = \frac{2}{5} + \left(-\frac{1}{9} \right) = \frac{2 \cdot 9 - 1 \cdot 5}{5 \cdot 9} = \frac{18 - 5}{45} = \frac{13}{45}$$

$$\frac{12}{45} - \frac{13}{45} = \frac{12 - 13}{45} = \frac{-1}{45}$$

$$\frac{8}{105} - \frac{8}{105} = \frac{0}{105} = 0$$

$$(2) \frac{9}{4} + \left(\frac{2}{5} \right) = \frac{9 \cdot 5 + 2 \cdot 4}{4 \cdot 5} = \frac{45 + 8}{20} = \frac{53}{20}$$

$$\frac{1}{21} \cdot \frac{53}{20} = \frac{53}{420}$$

$$\frac{53}{420} + \frac{53}{420} = \frac{106}{420} = \frac{53}{210}$$

$$\frac{53}{210} + \frac{53}{210} = \frac{106}{105}$$