

Repaso examen

1. Redondea a los milésimos las siguientes cifras:

Valor	Aproximado	Error	Cota de error
2,6787	2,679	0,0003	$< 0,0005$
3,67	3,677	0,0002	$< 0,0005$

2. Realiza las siguientes operaciones:

$$a) 6h 46min 57s + 9h 37min 30s = \\ = 15h 83min 87s = 15h 84min 27s = 16h 24min 27s$$

$$b) (120h 3min 30s) : 6 = 20h 0min 35s$$

$$c) (3h 15min 30s) \cdot 3 = 9h 45min 90s = 9h 46min 30s$$

$$3. \text{ Expresa de forma compleja} = 365,6 \text{ min} \\ 6h 5min 36s$$

$$4. \text{ Expresa de forma incompleja} = 3h 15min 12s = 11712s$$

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6. Resuelve

$$\sqrt{0,0049} = 0,07 \\ \begin{array}{r} 0,0049 \\ -49 \\ \hline 0 \end{array} \quad \begin{array}{l} 0,07 \\ \hline 7 \cdot 7 = 49 \end{array}$$

$$8. \frac{\left[\left(\frac{3}{4} + \frac{1}{2} \right) \cdot \frac{1}{10} \right] : \frac{1}{2}}{\left[\frac{18}{4} - \frac{7}{4} \right] \cdot \frac{2}{11}} = \frac{\left[\left(\frac{3}{4} + \frac{2}{4} \right) \cdot \frac{1}{10} \right] : \frac{1}{2}}{\left(\frac{11}{4} \right) \cdot \frac{2}{11}} =$$

$$= \frac{\left(\frac{5}{4} \cdot \frac{1}{10} \right) : \frac{1}{2}}{\frac{1}{2}} = \frac{\frac{1}{8} : \frac{1}{2}}{\frac{1}{2}} = \frac{1}{4} : \frac{1}{2} = \frac{2}{4} = \boxed{\frac{1}{2}}$$

9. Calcula:

$$a) \left(\frac{1}{2} \right)^{-3} = 2^3 = 8$$

$$b) \left(\frac{2}{3} \right)^2 \cdot \left(\frac{3}{2} \right)^{-3} = \left(\frac{2}{3} \right)^2 \cdot \left(\frac{2}{3} \right)^3 = \left(\frac{2}{3} \right)^5 = \frac{32}{243}$$