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25

$$(50) a_q = a_p + (q - p) \cdot d$$

$$a_{25} = a_{10} + (25 - 10) \cdot 5 = 32 + (15) \cdot 5 = 32 + 75 = 107$$

$$a_{25} = 107$$

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$$(18) a) 1, 5, 25, 125, 625$$

$$\frac{5}{1} = \frac{25}{5} = \frac{125}{25} = \frac{625}{125} = 5 = r \rightarrow \text{S' es proporción geométrica.}$$

$$b) -1, -2, -4, -8, -16$$

$$\frac{-2}{-1} = \frac{-4}{-2} = \frac{-8}{-4} = \frac{-16}{-8} = 2 = r \rightarrow \text{S' es p. geométrica.}$$

$$c) 3, 9, 24, 33$$

$$\frac{9}{3} \neq \frac{24}{9} \rightarrow \text{No es p. geométrica.}$$

$$d) 4, 4, 4, 4,$$

$$\frac{4}{4} = \frac{4}{4} = \frac{4}{4} = \frac{4}{4} = 1 = r \rightarrow \text{S' es p. geométrica.}$$

(81)

$$200 \cdot 1'10 \cdot 0'90 = \underline{\underline{198 \text{ €}}}$$

$$\text{Rebaja total} = 1'10 \cdot 0'90 = 0'99 \Rightarrow \text{Rebaja} = 1\%$$

(94)

	Precio €/kg.	Cantidad
A	5	x
B	8	100 - x
total	7'25	100

$$5x + 8(100 - x) = 7'25 \cdot 100$$

$$5x + 800 - 8x = 725$$

$$-3x = 725 - 800 = -75$$

$$x = \frac{-75}{-3} = 25$$

$$\text{Café A} = 25\% \quad \text{Café B} = 75\%$$

(62)

$$a_8 = 40 \parallel d = 7 \parallel \text{hallar } \begin{cases} a_1 \\ s_{10} \end{cases}$$

$$a_8 = a_1 + (8-1) \cdot d$$

$$40 = a_1 + 7 \cdot 7$$

$$a_1 = 40 - 49 = -9$$

$$\underline{\underline{a_1 = -9}}$$

$$a_{10} = a_1 + (10-1) \cdot d$$

$$a_{10} = -9 + 9 \cdot 7 = \underline{\underline{54}}$$

$$a_{10} = 54$$

$$S_{10} = \frac{(a_1 + a_{10}) \cdot 10}{2} = \frac{(-9 + 54) \cdot 10}{2} = 225$$

$$\underline{\underline{S_{10} = 225}}$$