

Problemas de magnitudes 2

1) Litros bomba extrae

litros	750 l	1250 l
tiempo	3 min	x

$$\frac{750}{3} = \frac{1250}{x}$$

$$750x = 1250 \cdot 3$$

$$x = \frac{3750}{750}$$

$$x = 5$$

Resultado

• E 5 min llenará 1250 l

2) viente

litros	290 l	x
tiempo	10 min	15 min

$$\frac{290}{10} = \frac{x}{15}$$

$$10x = 290 \cdot 15$$

$$x = \frac{4350}{10}$$

• Verterá 435 litros en 15 minutos

$$x = 435$$

3) recorrer

litros	15	x
Kilómetros	300	500

$$\frac{15}{300} = \frac{x}{500}$$

$$300x = 7500$$

$$300x = 7500$$

$$x = \frac{7500}{300}$$

• Consumirá 25 litros en 500 km

$$x = 25$$

4) cajas

cajas	13	25
rotuladores	156	x

$$\frac{13}{156} = \frac{25}{x}$$

$$13x = 156 \cdot 25$$

$$13x = 3900$$

$$x = \frac{3900}{13}$$

• Habrá 300 rotuladores en 25 cajas

$$x = 300$$

5) altura

metros	1,8	51
sombra	2,7	x 51

~~1,8~~ ~~51~~ ~~2,7~~ ~~x~~ \swarrow e/o no

• mide 34 m

$$\frac{180}{270} = \frac{x}{51}$$

$$270x = 180 \cdot 51$$

$$270x = 9180$$

$$x = \frac{9180}{270}$$

$$x = 34$$

$$180x = 270 \cdot 51$$

$$180x = 12750$$

$$x = \frac{12750}{180}$$

$$x = 70,8$$

↑ e/o

6) grifo

litros	42	x
tiempo	6	15

$$\frac{42}{6} = \frac{x}{15}$$

$$6x = 42 \cdot 15$$

$$6x = 630$$

$$x = \frac{630}{6}$$

• Saldrian 105 l

$$x = 105$$

Saldrian 105 litros
en quince minutos

7) plano

medida largo	10 cm	20 m 20 m	$\frac{1000}{700} = \frac{20}{x}$
ancho	7 cm	x x	

mide ~~140~~ 14 m de ancho

$$1000x = 700 \cdot 20$$

$$1000x = 14000$$

$$x = \frac{14000}{1000}$$

$$x = 14$$

8) precio

peso	1200	800
precio	15	x

$$\frac{1200}{15} = \frac{800}{x}$$

$$1200x = 800 \cdot 15$$

$$1200x = 12000$$

$$x = \frac{12000}{1200}$$

$$x = 10$$

• Costarian 10 € 800 gramos