

DIRECT PROPORTIONALITY PROBLEMS

1.- Solve the following problems by reducing to the unit method:

a) If 5 tickets of cinema cost 45€, how much do 7 tickets cost?

1 ticket costs → €



7 tickets cost → €

b) If 10 litres of petrol cost 15€, how much do I pay for 48 litres of petrol?

1 litre of petrol → €



48 litres of petrol → €

c) A baker uses 1800 grams of flour to make 3 loaves of bread. How much flour does he need to use if he wants to make 15 loaves of breads?

1 loaf of bread → grams



15 loaves of bread → grams

2.- Solve the following problems by the rule of three method:

a) 300 grams of strawberry cost 2,40€. How much do 750 grams cost?

g → €

g → €

$\frac{300}{750} = \frac{2,40}{x}$



b) Three identical buses can carry a total of 162 passengers. How many passengers can be carried on seven of these buses?

$$\begin{array}{l} \text{buses} \longrightarrow \text{passengers} \\ \text{buses} \longrightarrow \text{passengers} \\ \hline - = - \rightarrow x = \text{passengers} \end{array}$$



c) Richard earns 17.50€ for working 7 hours. How much does he earn for working 9 hours?

$$\begin{array}{l} \text{hours} \longrightarrow \text{€} \\ \text{hours} \longrightarrow \text{€} \\ \hline - = - \rightarrow x = \text{€} \end{array}$$



d) Jane has painted a 40 m^2 wall and she has used 8 pots of red paint. Tom wants to paint 25 m^2 wall. How many plots of paint does he need?

$$\begin{array}{l} \text{plots of paint} \longrightarrow \text{m}^2 \\ \text{plots of paint} \longrightarrow \text{m}^2 \\ \hline - = - \rightarrow x = \text{plots of paint} \end{array}$$



e) 5 kilograms of oranges cost 8€. How much kilograms of oranges can I buy for 12€?

$$\begin{array}{l} \text{kg} \longrightarrow \text{€} \\ \text{kg} \longrightarrow \text{€} \\ \hline - = - \rightarrow x = \text{kg} \end{array}$$

