

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 → €

— = — → x = €



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

buses \longrightarrow passengers
 buses \longrightarrow passengers
 — = — $\rightarrow x =$ passengers



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

hours \longrightarrow €
 hours \longrightarrow €
 — = — $\rightarrow x =$ €



- d) Jane has painted a 40 m² wall and she has used 8 pots of red paint. Tom wants to paint 25 m² wall. How many plots of paint does he need?

plots of paint \longrightarrow m²
 plots of paint \longrightarrow m²
 — = — $\rightarrow x =$ plots of paint



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

kg \longrightarrow €
 kg \longrightarrow €
 — = — $\rightarrow x =$ kg

