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 ⟶ €

$\frac{}{} = \frac{}{} \rightarrow x =$ €

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

buses ⟶ passengers
buses ⟶ passengers

$\frac{}{} = \frac{}{} \rightarrow x =$ passengers



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

hours ⟶ €
hours ⟶ €

$\frac{}{} = \frac{}{} \rightarrow x =$ €



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?

plots of paint ⟶ m^2
plots of paint ⟶ m^2

$\frac{}{} = \frac{}{} \rightarrow x =$ plots of paint



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

kg ⟶ €
kg ⟶ €

$\frac{}{} = \frac{}{} \rightarrow x =$ kg



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