

INVERSE PROPORTIONALITY PROBLEMS

Solve the following problems by the rule of three method:

- a) A farmer has enough grain to feed 50 cows for 10 days. How many days will the grain last if he has 40 cows?

cows $\longrightarrow$ days

cows $\longrightarrow$ days

$$\cdot = \cdot \rightarrow x = \text{days}$$



- b) 4 builders need 18 days to repair my roof. If I want to finish the roof in 12 days, how many builders do I need?

builders $\longrightarrow$ days

builders $\longrightarrow$ days

$$\cdot = \cdot \rightarrow x = \text{days}$$



- c) Three friends pay €7.50 each to make a present. If two more friends want to participate to buy the present, how much should each friends pay?

friends $\longrightarrow$ €

friends $\longrightarrow$ €

$$\cdot = \cdot \rightarrow x = \text{€}$$



d) A car travels at 72 km/h and takes 3 hours to go to Hellín from Almería. How long will it take another car to travel the same route if it goes at 90 km/h?

km/h $\longrightarrow$ hours

km/h $\longrightarrow$ hours



$$\cdot = \cdot \rightarrow x = \text{hours}$$

e) Three taps take 24 hours to fill a pool. How long will it take 4 taps?

taps $\longrightarrow$ hours

taps $\longrightarrow$ hours



$$\cdot = \cdot \rightarrow x = \text{hours}$$