

MAT-A/Biologie - Foplin 13/10/15 - Ess 12

$$A = 2 \text{ ha} = 2 \cdot (100 \text{ m})^2 = 200'000 \text{ m}^2$$

- area a pomodori (2014) = $(100 - 30 - 45) \% \times 200'000 \text{ m}^2$
 $= \frac{25}{100} \times 200'000 = 50'000 \text{ m}^2$

prod. pomodori 2014 : $\frac{7 \text{ kg}}{\text{m}^2} \times 50'000 \text{ m}^2 = 350 \text{ t}$

- varia. prod. carne : area $30 \% \rightarrow 25 \%$

$$(1 + \frac{p}{100}) 30 = 25$$

$$1 + \frac{p}{100} = \frac{25}{30} = \frac{5}{6}$$

$$\frac{p}{100} = \frac{5}{6} - 1 = -\frac{1}{6}$$

$$p = -\frac{100}{6} = -\frac{50}{3} = -16.\bar{6}$$

Zucchini 45% $\rightarrow$ 40% ...
 porro 25% $\rightarrow$ 35% ...

totale $\left(1 + \frac{p}{100}\right) \cdot \frac{30 \times 3 + 45 \times 8 + 25 \times 7}{25 \times 3 + 40 \times 8 + 35 \times 7} = 1 \Rightarrow p = +2.4\%$

• vecchia prodn. porro : $A \times 35 \times 7$
 nuova prodn. porro : $A \times 35 \times 7 + 0.3 \times A \times p \times 7$

$$\cancel{A \times 35 \times 7} + 0.3 \times \cancel{A \times} \times \cancel{7} = 1.05 \times \cancel{A \times 35 \times 7}$$

$$P = \frac{0.05 \times 35}{0.3} \Rightarrow P = 5.8$$