

Oefening 12

$$\textcircled{1} \quad 0,25 Q_{\text{REF}} + 500 - 1500 = 0$$
$$Q_{\text{REF}} = \frac{1000}{0,25} = 4000$$

$$\textcircled{2} \quad 0,125 Q_{\text{REF}} - 1500 = 0$$
$$Q_{\text{REF}} = \frac{1500}{0,125} = 12000$$

$$\textcircled{3} \quad 0,5 Q_{\text{REF}} - 1500 = 0$$
$$Q_{\text{REF}} = \frac{1500}{0,5} = 3000$$

Wanneer bier = voetbal :-> dan is $\textcircled{2}$ de oplossing

Oefening 13

$$\textcircled{1} \quad \text{Brutowinst} = \frac{\text{Nettowinst}}{0,75} = \frac{200\,000\,000}{0,75} = 266\,666\,667$$

Zoekende $(p\text{-Var}k) Q - \text{Var}k = \text{Brutowinst}$

$$(5000\,000 - 3000\,000)Q - 1650\,000\,000 = 266\,666\,667$$
$$Q = 959$$

$$\textcircled{2} \quad \text{PoEP} = \frac{1650\,000\,000}{p\text{-Var}k} = 825$$

Oefening 14

$$\textcircled{1} \quad 6,75 Q = 1350 \quad \Rightarrow \quad Q = \frac{1350}{6,75} = 200$$

$$\textcircled{2} \quad 6,75 Q = 2025 \quad \Rightarrow \quad Q = \frac{2025}{6,75} = 300$$

$$\textcircled{3} \quad (6,75 + 0,3)Q = 3150 \quad \Rightarrow \quad Q = \frac{3150}{7,05} = 447$$

Oefening 15

$$\textcircled{1} Q = \frac{\text{Vaste kost}}{p - \text{Vark}} = \frac{38500}{900 - 600} = 129$$

$$\textcircled{2} (p - \text{Vark})Q - \text{Vaste Kost} = \text{Winst} \quad (= \text{Periodewinst})$$

$$(900 - 600)150 - 38500 = 6500$$

$$\textcircled{3} \frac{25000}{1 - 40\%} = \text{Periodewinst} = 41666,67$$

$$\Rightarrow (900 - 600)Q - 38500 = 41666,67$$

$$Q = 268$$

$$\textcircled{4} Q = \frac{38500}{990 - 600} = 99$$

$$\textcircled{5} Q = \frac{38500}{990 - 625} = 106$$

$$\textcircled{6} Q = \frac{47085}{990 - 625} = 129$$

$$47085 = 38500 + 8585$$

Oefening 16

$$\textcircled{1} Q = \frac{337500}{75 - 52,75} = 15169$$

$$\textcircled{2} W = (p - \text{Vark})Q - \text{Vaste Kost} = (75 - 52,75)10000 - 337500 = -115000$$

$$\textcircled{3} Q = \frac{337500}{75 - 53,50} = 15698$$

$$\textcircled{4} Q = \frac{347500}{75 - 49} = 13366$$

$$\textcircled{5} (52,5 - 49)Q = 347500 - 337500$$

$$Q = 2667$$

$$\textcircled{6} (75 - 53,5)Q - 337500 = 211366,50$$

$$\textcircled{7} (75 - 52,75)Q - 337500 = 50000$$

$$Q = 17416$$

