6. $s = 3000\,m$, $v_k = 340\,m/s$ $\quad t = \frac{3000\,m}{340\,m/s} \approx 8{,}8\,s$

8. $s = 16\,km$, $t = 40\,min = \frac{2}{3}\,h$ $\quad v = \frac{16\,km}{\frac{2}{3}\,h} = 24\,\frac{km}{h} = \underline{\underline{6{,}7\,\frac{m}{s}}}$

7. $t = 1{,}4\,s$, $v_k = 340\,m/s$ $\quad s = v_k \cdot t = 1{,}4\,s \cdot 340\,m/s = 476\,m$

äänі meni edestakaisin $\frac{476\,m}{2} = \underline{\underline{238\,m}}$

9. K $s = 440\,m$ $t = 30\,s$ $\quad$ S $s = 24000\,m$ $t = 1800\,s$

$v_k = \frac{440\,m}{30\,s} = 14{,}7\,m/s$ $\quad v_k = \frac{24000\,m}{1800\,s} \approx 13{,}3\,m/s$

Kiitäjällä suurempi keskinopeus

10. $s = 15\,m$, $t = 0{,}9\,s$ $\quad v_k = \frac{s}{t} = \frac{15\,m}{0{,}9\,s} = \underline{16{,}7\,m/s = 60\,km/h}$

11. $\Delta t = 3\,s$, $a = 6{,}3\,m/s^2$ $\quad \Delta v = a \cdot \Delta t = 6{,}3\,m/s^2 \cdot 3\,s = \underline{18{,}9\,m/s}$

12. a) $\Delta v = 160\,km/h = 44{,}4\,m/s$, $t = 7\,s$ $\quad a = \frac{\Delta v}{t} = \frac{44{,}4\,m/s}{7\,s} \approx \underline{\underline{6{,}3\,m/}}$

b) $\Delta v = -270\,km/h = -75\,m/s$, $t = 3\,s$ $\quad a = \frac{-75\,m/s}{3\,s} = \underline{\underline{-25\,m/s}}$

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