

20. - 27. 5. 2020

ŘEŠENÍ

1) a) $m(18; 54; 66) = 18 \cdot 33 = \underline{\underline{594}}$

$$18 = \textcircled{2} \textcircled{3} \textcircled{3}$$

$$54 = \cancel{2} \cdot \cancel{3} \cdot \cancel{3} \cdot \textcircled{3}$$

$$66 = \cancel{2} \cdot \cancel{3} \cdot \textcircled{11}$$

$$\begin{array}{r|l} 18 & 2 \\ 9 & 3 \\ 3 & 3 \\ \textcircled{1} & \end{array}$$

$$\begin{array}{r|l} 54 & 2 \\ 27 & 3 \\ 9 & 3 \\ 3 & 3 \\ \textcircled{1} & \end{array}$$

$$\begin{array}{r|l} 66 & 2 \\ 33 & 3 \\ 11 & 11 \\ \textcircled{1} & \end{array}$$

b) $m(156; 315) = 156 \cdot 105 = \underline{\underline{16380}}$

$$156 = \textcircled{2} \textcircled{2} \textcircled{3} \textcircled{13}$$

$$315 = \cancel{3} \cdot \textcircled{3} \cdot \textcircled{5} \cdot \textcircled{7}$$

$$\begin{array}{r|l} 156 & 2 \\ 78 & 2 \\ 39 & 3 \\ 13 & 13 \\ \textcircled{1} & \end{array}$$

$$\begin{array}{r|l} 315 & 3 \\ 105 & 3 \\ 35 & 5 \\ 7 & 7 \\ \textcircled{1} & \end{array}$$

c) $D(45; 105) = \underline{\underline{15}}$

$$45 = \underline{3} \cdot \cancel{3} \cdot \underline{5}$$

$$105 = \cancel{3} \cdot \cancel{5} \cdot *$$

$$\begin{array}{r|l} 45 & 3 \\ 15 & 3 \\ 5 & 5 \\ \textcircled{1} & \end{array}$$

$$\begin{array}{r|l} 105 & 3 \\ 35 & 5 \\ 7 & 7 \\ \textcircled{1} & \end{array}$$

d) $D(132; 144; 312) = \underline{\underline{12}}$

$$132 = \underline{2} \cdot \underline{2} \cdot \underline{3} \cdot *$$

$$144 = \cancel{2} \cdot \cancel{2} \cdot \cancel{2} \cdot \cancel{2} \cdot \cancel{3} \cdot \cancel{3}$$

$$312 = \cancel{2} \cdot \cancel{2} \cdot \cancel{2} \cdot \cancel{3} \cdot *$$

$$\begin{array}{r|l} 132 & 2 \\ 66 & 2 \\ 33 & 3 \\ 11 & 11 \\ \textcircled{1} & \end{array}$$

$$\begin{array}{r|l} 144 & 2 \\ 72 & 2 \\ 36 & 2 \\ 18 & 2 \\ 9 & 3 \\ 3 & 3 \\ \textcircled{1} & \end{array}$$

$$\begin{array}{r|l} 312 & 2 \\ 156 & 2 \\ 78 & 2 \\ 39 & 3 \\ 13 & 13 \\ \textcircled{1} & \end{array}$$

2) nejmenší: 50976
největší: 54972

3) $n(21; 25; 30; 36) = 21 \cdot 25 \cdot 12 = 6300s =$
 $= 105min = \underline{1h 45min}$

21 = (3)(7)
25 = (5)(5)
30 = (2)(3)(5)
36 = (2)(2)(3)(3)

1. spuštění 8⁰⁰ → 9⁴⁵ →
→ 11³⁰ → 13¹⁵

Prono po poledni bude jejich čtvrte' současné spuštění.

4) a) $7375' = \underline{\underline{122^{\circ}55'}}$ b) $132^{\circ}17' = \underline{\underline{4937'}}$
c) $3008' = \underline{\underline{50^{\circ}08'}}$ d) $48^{\circ}52' = \underline{\underline{2932'}}$

5) a) $1730m = \underline{\underline{1,73km}}$ e) $21a = \underline{\underline{0,21ha}}$
b) $0,213m^2 = \underline{\underline{21,3dm^2}}$ f) $6,5cl = \underline{\underline{0,000065m^3}}$
c) $1730g = \underline{\underline{1730000dkg}}$ g) $9,667dm = \underline{\underline{966,7mm}}$
d) $0,054mm^3 = \underline{\underline{0,000054cm^3}}$ h) $0,354cg = \underline{\underline{0,00000354kg}}$

6) $D(176; 112; 128; 80) = \underline{\underline{16}}$

176 = 2 · 2 · 2 · 2 · 7
112 = 2 · 2 · 2 · 2 · 7
128 = 2 · 2 · 2 · 2 · 2 · 2 · 2
80 = 2 · 2 · 2 · 2 · 5

Jeho průměrná rychlost byla 16 km/h.

