SLOVNÍ ÚLOHY II

I. ROVNICE

(1)

	v	t	s
1. cesta	x	4	4x
2. cesta	x+15	4−0,8=3,2	3,2(x+15)

$v_1 = 60\ \frac{km}{h}$ $s_1 = 240\ km$

$v_2 = 75\ \frac{km}{h}$ $s_2 = 240\ km$

48 min = (48 : 60) h = 0,8 h

$4x = 3{,}2(x+15)$

$4x = 3{,}2x + 48$

$0{,}8x = 48$

$x = 60$

$s = 240\ km$

(2)

	v	t	s
KAM.	72 km/h	$x+\frac{2}{3}$	$72(x+\frac{2}{3})$
OT	88 km/h	x	88x

40 min = (40 : 60) h = $\frac{2}{3}$ h

$88x = 72(x+\frac{2}{3})$

$88x = 72x + 48$

$16x = 48$

$x = 3\ h$

ČAS → 3 h

Dráha $88 \cdot 3 = 264\ km$

(3)

	v	t	s
chodec	3 km/h	x+0,5	3(x+0,5)
cyklista	12 km/h	x	12x

$3(x+0{,}5) = 12x$

$3x + 1{,}5 = 12x$

$9x = 1{,}5$

$x = \frac{1{,}5}{9} = \frac{15}{90} = \frac{1}{6}\ h = 10\ min$

– ČAS → 40 min

→ ČAS 10 min

$v\ 10^{40}$

(4)

	v	t	s
traktor	12 km/h	4,25	12 · 4,25 = 51
auto	x	0,75	0,75x

3 h 30 min = 3,5 h

45 min = 0,75 h

$0{,}75x = 51$

$x = 68\ \frac{km}{h}$

$v_{aut} = 68\ \frac{km}{h}$