

$$(30 - \sqrt{810}) \cdot (30 + \sqrt{810}) = \underline{\underline{3. \text{ v\u00e9nec}}} = 900 - 810 = \underline{\underline{90}} \quad (2)$$

$$5) \frac{2x+3}{5} - \frac{x-1}{10} = 1 \quad | \cdot 10$$

$$4x + 6 - x + 1 = 10$$

$$3x = 3$$

$$\underline{\underline{x = 1}}$$

$$\frac{5x-15}{10} = x - \frac{3+x}{2} \quad | \cdot 10$$

$$5x - 15 = 10x - 5(3+x)$$

$$5x - 15 = 5x - 15$$

$$\underline{\underline{0 = 0}} \quad \infty \text{ r\u00e9\u00e9\u00e9}$$

6) x ... po\u0105t ~~at~~ k\u00far\u00e1k a k\u00e9m\u00e9

m\u00e9tella ... $-\frac{1}{4}$ k\u00e9m\u00e9 = 6 k\u00e9m\u00e9

je\u0105idella ... $-18 \cdot 6 = 108$ k\u00far\u00e1k $\Rightarrow 6 \cdot 1 - 108$ k\u00far\u00e1k

st\u00e4l ... $\frac{1}{4}$ a $24 \cdot x$

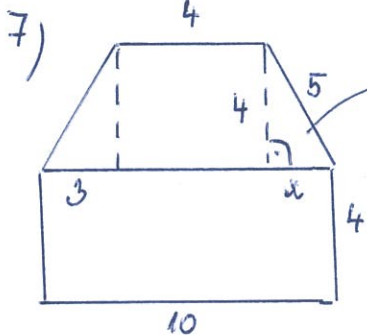
$$\underline{\underline{24x = 6x + 108 + 6x}}$$

$$x = 9 \Rightarrow 6 \cdot 2 - \text{po\u0105t k\u00far\u00e1k a k\u00e9m\u00e9}$$

6.3: st\u00e4l k\u00far\u00e1k a k\u00e9m\u00e9

9 k\u00far\u00e1k $\cdot 24$ k\u00e9m\u00e9 = celkom 216 k\u00far\u00e1k

st\u00e4l: $216 : 4 = \underline{\underline{54}}$ k\u00far\u00e1k



P. v\u00e9ta - pythag. trojice - $x = 3$ dm

$$S = \frac{(a+c) \cdot v}{2} = \frac{(10+4) \cdot 4}{2} = \underline{\underline{28}} \text{ [dm}^2\text{]}$$

$$O_{\text{v\u00e9t.}} = 4 + 5 + 10 + 5 = 24 \text{ [dm]}$$

$$O_{\text{obd.}} = 2(10+4) = 28 \text{ [dm]}$$

$$\text{rozdi\u0142} : 28 - 24 = \underline{\underline{4}} \text{ [dm]}$$

Test \u011b. 4

	zl.
1) \u011b\u00e9\u00e9ke ... do	20
ampl ... x	16
$x + \frac{x}{4} = 20$	<u>36 k\u00far\u00e1k</u>
:	
$x = 16$	

$$2) (a-4)(\square - 3a) = -3a^2 + \square \cdot a - 20$$

Diagram showing the cross-multiplication process to find the missing terms in the square. The result is $12a + 5a$. The missing terms are boxed as $\square 5$ and $\square 17$.

jednod. ze 0 4 \u011b\u00e9ny p\u0159 roz\u00fas\u00e1\u0105en\u00ed

$$3) \left(\frac{13}{7} \cdot \frac{5}{10} + \frac{26}{14} \right) : \frac{13}{35} = \left(\frac{13}{14} + \frac{26}{14} \right) \cdot \frac{35}{13} = \frac{39}{14} \cdot \frac{35}{13} = \underline{\underline{\frac{15}{2}}}$$

$$\frac{3 + \frac{1}{3}}{20} \cdot \frac{\frac{1}{2} \cdot 6}{\frac{15}{8} - \frac{3}{2}} = \frac{\sqrt{100-64} - 3 \cdot 2}{(\sqrt{100} - \sqrt{64} - 3) \cdot 2} = \frac{\frac{10}{3}}{20} \cdot \frac{3}{\frac{5}{2} - \frac{3}{2}} - \frac{6-6}{(10-8-3) \cdot 2}$$

$$= \frac{10}{3} \cdot \frac{1}{20} \cdot \frac{3}{1} \cdot 1 - \frac{0}{2} = \underline{\underline{\frac{1}{2}}}$$

$$4) (0,5y + \sqrt{0,36 + 0,64}) \cdot (0,5y - \sqrt{0,36 + 0,64}) = (0,5y + 1)(0,5y - 1) = \underline{\underline{0,25y^2 - 1}} \quad (3. \text{ v\u00e9nec})$$