

an poměr podobnosti dvou podobných trojúhelníků. Vypočítej délky jejich zbývajících stran.

a) $\triangle ABC \sim \triangle DEF$; $k = 3:5 \Rightarrow \frac{3}{5}$
 $a = 2,5 \text{ cm}; b = 4 \text{ cm}; f = 5 \text{ cm}$

$$d = a \cdot k$$

$$\underline{d} = 2,5 \cdot \frac{3}{5} = \frac{25}{10} \cdot \frac{3}{5} = \underline{1,5 \text{ cm}}$$

$$e = b \cdot k$$

$$\underline{e} = 4 \cdot \frac{3}{5} = \underline{2,4 \text{ cm}}$$

! $c = \frac{f}{k}$

$$\underline{c} = \frac{5}{\frac{3}{5}} = \frac{25}{3} = \underline{8\frac{1}{3} \text{ cm}}$$

b) $\triangle KLM \sim \triangle PQN$; $k = \frac{5}{4}$,
 $m = 8 \text{ cm}; p = 12 \text{ cm}; q = 10 \text{ cm}$

$$n = m \cdot k$$

$$\underline{n} = 8 \cdot \frac{5}{4} = \underline{10 \text{ cm}}$$

$$k = \frac{p}{m}$$

$$\underline{k} = \frac{12}{8} = \frac{48}{5} = \underline{9,6 \text{ cm}}$$

$$l = \frac{q}{k}$$

$$\underline{l} = \frac{10}{\frac{48}{5}} = \frac{40}{5} = \underline{8 \text{ cm}}$$