

REŠITVE - obseg trikotnika

①

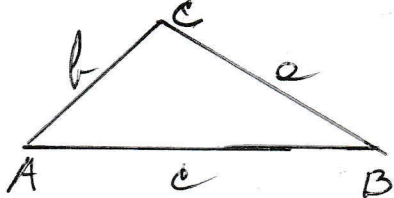
ΔABC

$a = 12,34 \text{ m}$

$b = 15,18 \text{ m}$

$c = 20,6 \text{ m}$

$\sigma = ?$



$\sigma = a + b + c$

$\sigma = 12,34 + 15,18 + 20,6$

$\sigma = \underline{\underline{48,12 \text{ m}}}$

Odp.: uporabiti je treba $48,12 \text{ m}$ opreje.

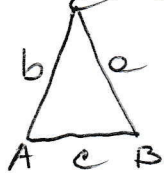
②

ENAKOKRANI ΔABC

$\sigma = 17 \text{ cm}$

$a = b = ?$

$c = ?$



$\sigma = a + b + c$

$\sigma = 5 + 5 + 7$

$\sigma = 6 + 6 + 5$

$\sigma = 7 + 7 + 3$

$\sigma = 8 + 8 + 1$

Odp.: Obstaja 4 možnosti.

$a = b = 5 \text{ cm } c = 7 \text{ cm}$

$a = b = 6 \text{ cm } c = 5 \text{ cm}$

$a = b = 7 \text{ cm } c = 3 \text{ cm}$

$a = b = 8 \text{ cm } c = 1 \text{ cm}$

③

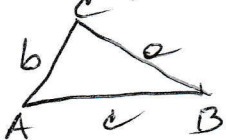
ΔABC

$a = \text{cm}$

$b = 5,4 \text{ cm}$

$c = 6,08 \text{ cm}$

$\sigma = ?$



$\sigma = a + b + c$

$18 = a + 5,4 + 6,08$

$18 = a + 11,48$

$a = 18 - 11,48$

$a = \underline{\underline{6,52 \text{ cm}}}$

Odp.: Jaka je potrebna dolžina stranice $a = 6,52 \text{ cm}$

④

ΔABC

$\sigma = 36 \text{ cm}$

$a = 1,4 \text{ dm} = \underline{14 \text{ cm}}$

$b = 0,13 \text{ m} = \underline{\underline{13 \text{ cm}}}$

$c = ?$



$\sigma = a + b + c$

$36 = 14 + 13 + c$

$36 = 27 + c$

$c = 36 - 27$

$c = \underline{\underline{9 \text{ cm}}} = 0,9 \text{ dm}$

Odp.: Tretja stranica je dolga 9 cm

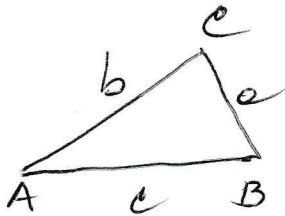
⑤ $\triangle ABC$

$$|AB| = 12\frac{2}{5} \text{ cm}$$

$$|BC| = 4\frac{5}{6} \text{ cm}$$

$$|AC| = 11\frac{1}{2} \text{ cm}$$

$$\sigma = ?$$



$$\sigma = |AB| + |BC| + |AC|$$

$$\sigma = 12\frac{2}{5} + 4\frac{5}{6} + 11\frac{1}{2}$$

$$\sigma = 12\frac{12}{30} + 4\frac{25}{30} + 11\frac{15}{30}$$

$$\sigma = 27\frac{52}{30} \text{ cm}$$

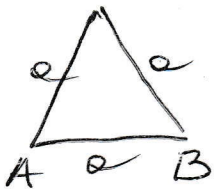
$$\sigma = 28\frac{22}{30} \text{ cm}$$

$$\sigma = \underline{\underline{28\frac{11}{15} \text{ cm}}}$$

⑥ ENAKOSTRANIČNI $\triangle ABC$

$$\sigma = 24\frac{1}{3} \text{ dm}$$

$$a = ?$$



$$\sigma = 3 \cdot a$$

$$a = \sigma : 3$$

$$a = 24\frac{1}{3} : 3$$

$$a = \frac{73}{3} \cdot \frac{1}{3}$$

$$a = \frac{73}{9}$$

$$a = \underline{\underline{8\frac{1}{9} \text{ dm}}}$$

Odp.: stranica je duga $8\frac{1}{9} \text{ dm}$.