OBSEG IN PLOŠČINA LIKOV

(KVADRAT, PRAVOKOTNIK, PARALELOGRAM, ROMB)

**Rešitve ankete**

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**1. Naloga:**

Brez računanja ugotovi, katera paralelograma na sliki imata enako ploščino.

A in B
B in C
C in Č
A in C
B in D

**Odgovor utemelji.**

Paralelograma imata enako dolgo stranico in pripadajočo višino.

**2. Naloga: Izračunaj.**

|  | Vpišite besedilo |
| --- | --- |
| Druga stranica pravokotnika je | p = a ⋅ bb = p : ab = 16 : 2b = 8 cm  |
| Obseg  pravokotnika je | o = 2 ⋅ a + 2 ⋅ bo = 2 ⋅ 2 + 2 ⋅ 8o = 4 + 16o = 20 cm  |
| Obseg kvadrata je | o = 4 ⋅ ao = 4 ⋅ 2o = 8 cm |

**3. Naloga: Dolžina stranice romba z obsegom 36 cm je 9 cm.**

**Drži.**
Ne drži.

 o = 4 ⋅ a

36 = 4 ⋅ a

 a = 36 : 4

 a = 9 cm

**4. Naloga: Višina romba s ploščino 16 cm2 in dolžino stranice 5 cm je 4 cm.**

Drži.
Ne drži.

 p = a ⋅ v

 p = 5 ⋅ 4

 p = 20 cm2

**5. Naloga: Izračunaj obseg romba s podatki v = 4 cm in p = 20,4 cm2.**

 p = a ⋅ v

20, 4 = a ⋅ 4

 a = 20, 4 : 4

 a = 5,1 cm

o = 4 ⋅ a

o = 4 ⋅ 5,1

o = 20, 4 cm

**6. Naloga: Ploščina paralelograma s podatki a = 6 cm, b = 4 cm, vb = 5 cm je 30 cm2.**

Drži.
Ne drži.

p = b ⋅ **vb**

p = 4 ⋅ 5

p = 30 cm2

**7. Naloga: Izračunaj obseg in ploščino paralelograma s podatki a = 5 cm, b = 8 cm in va = 6 cm.**

|  | Vpišite besedilo |
| --- | --- |
| Obseg: | o = 2 ⋅ a + 2 ⋅ bo = 2 ⋅ 5 + 2 ⋅ 8o = 10 + 16o = 26 cm |
| Ploščina: | p = a ⋅ va p = 5 ⋅ 6p = 30 cm2  |

**8.\*  Naloga: Izračunaj.**



|  | Vpišite besedilo |
| --- | --- |
| Širina pravokotnika je |  o = 2 ⋅ a + 2 ⋅ b  20 = 2 ⋅ 6 + 2 ⋅ b 20 = 12 + 2 ⋅ b2 ⋅ b = 20 – 122 ⋅ b = 8 b = 8 : 2  b = 4 cm |
| Ploščina pravokotnika je | p = a ⋅ bp = 6 ⋅ 4 p = 24 cm2  |
| Ploščina kvadrata je |  o = 4 ⋅ a24 = 4 ⋅ a a = 24 : 4 a = 6 cmp = a ⋅ ap = 6 ⋅ 6p = 36 cm2  |

**9.\* Naloga: Izračunaj obseg paralelograma s podatki va = 3,5 cm, vb = 4 cm in p = 28 cm**

14 cm
**30 cm**
56 cm

 p = a ⋅ va

28 = a ⋅ 3,5

 a = 28 : 3,5

 a = 8 cm

 p = b ⋅ vb

28 = b ⋅ 4

 b = 28 : 4

 b = 7 cm

o = 2 ⋅ a + 2 ⋅ b

o = 2 ⋅ 8 + 2 ⋅ 7

o = 16 + 14

o = 30 cm