3. PREVERJANJE ZNANJA
iz matematike (B)

Ime in priimek: Rešitve

Razred: 7.	Število točk: od 46
Datum: 20. 2. 2023	Število doseženih točk:

50 – 64,99% (zad 2), 65-79,99% (dob 3), 80 – 89,99% (pdb 4), 90 – 100% (odl 5)

1. Izračunaj ! (8 točk)

a) $\frac{8}{9}-\frac{2}{9}=\frac{6}{9}=\frac{2}{3}$ (1t)

b) $\frac{1}{6}+\frac{5}{12}+\frac{7}{8}=$

$=\frac{4}{24}+\frac{10}{24}+\frac{21}{24}=\frac{35}{24}=1\frac{11}{24}$ (1t)

c) $3\frac{1}{3}+1\frac{1}{2}=3\frac{2}{6}+1\frac{3}{6}=4\frac{5}{6}$ (1t)

d) $5-2\frac{2}{3}=2\frac{1}{3}$ (1t)

9,784
+ 73,600
83,384

e) $0{,}12:\frac{3}{5}=\frac{12\cdot 5\cdot 4\cdot 1\cdot 1}{100\cdot 3\cdot 1\cdot 20\cdot 5}=\frac{1}{5}$ (1t)

f) 73,6 + 9,784 = 83,384 (1t)

g) 3,5 · 0,022 = 0,077 (1t)

0,022 · 3,5
66
110
0,0770

h) 1,8:0,02 = 90 (1t)

180:2

2. Izračunaj vrednost izrazov: (4 točke)

a) $2\frac{4}{9}-(1\frac{1}{3}+\frac{1}{6})=$

$=2\frac{4}{9}-(1\frac{2}{6}+\frac{1}{6})=$

$=2\frac{4}{9}-1\frac{3}{6}=2\frac{8}{18}-1\frac{9}{18}=$

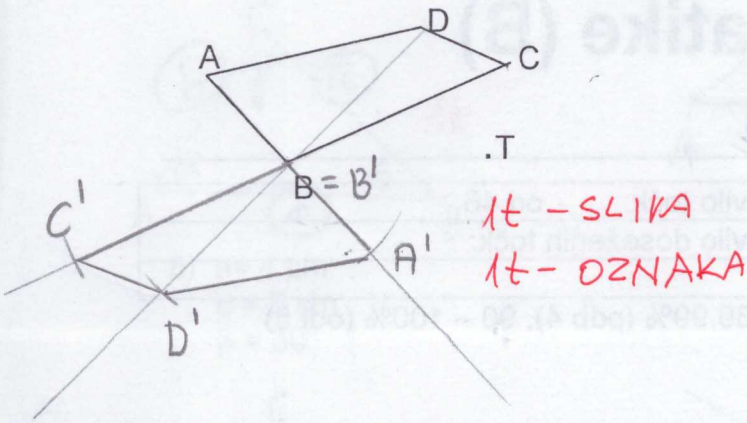
b) $3{,}75+(1\frac{1}{8}+(6\frac{1}{4}-2\frac{3}{12})-0{,}12)=$

glej list

3. **Prezrcali** in **zapiši** z matematičnimi znaki: (6 točk)

a) štirikotnik ABCD **čez točko B**

Zapis: $Z_B : ABCD \to A'B'C'D'$ (1t)

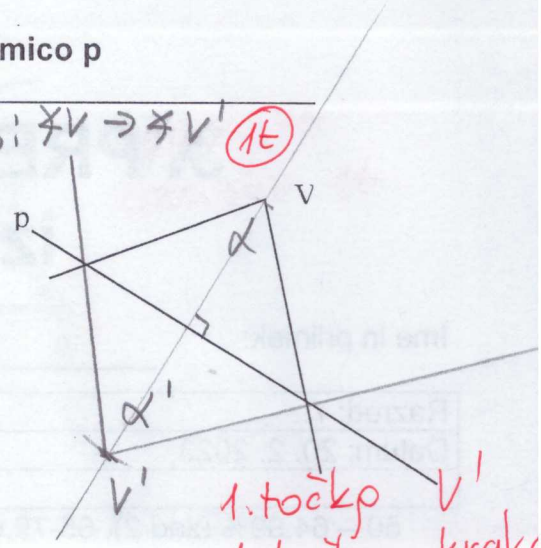


1t - SLIKA

1t - OZNAKA

b) kot **čez premico p**

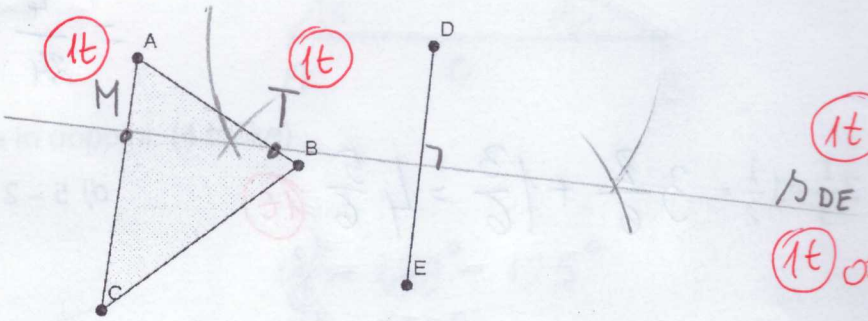
Zapis: $Z_p : \sphericalangle V \to \sphericalangle V'$ (1t)



1. točko V'

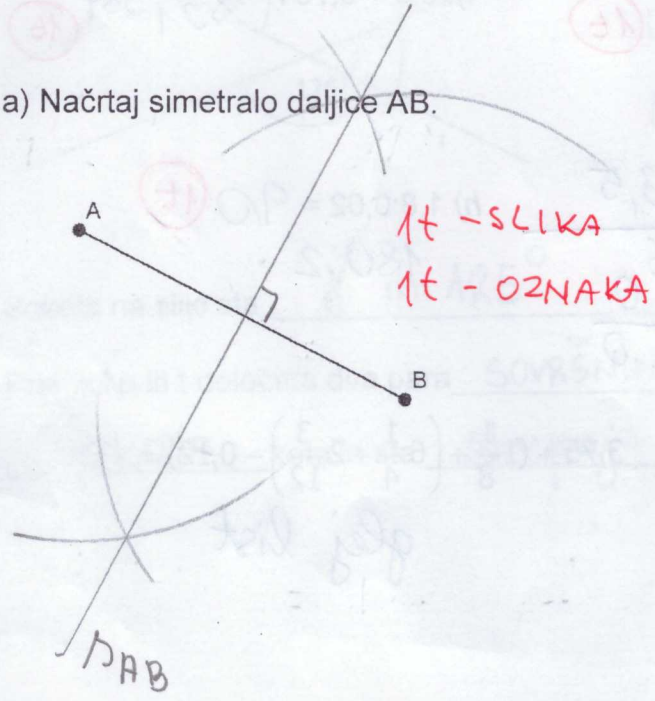
1 točka - kraka

2. Na trikotnikovih stranicah **določi tiste točke**, ki so **enako oddaljene** od krajišč daljice DE. (4 točke)



1t oznaka

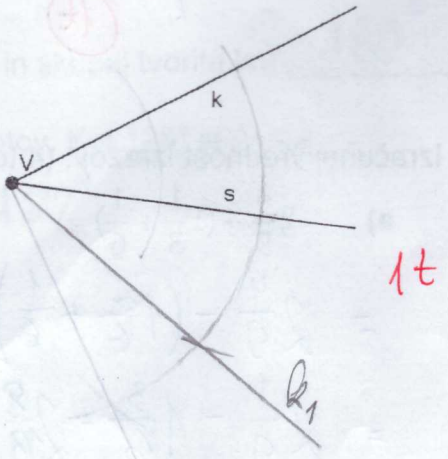
5. a) Načrtaj simetralo daljice AB.



1t - SLIKA

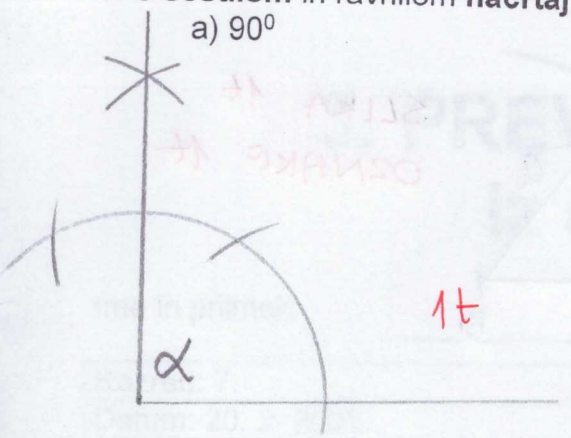
1t - OZNAKA

b) Na sliki je en krak kota in simetrala. **Načrtaj drugi krak** tega kota. (3 točke)

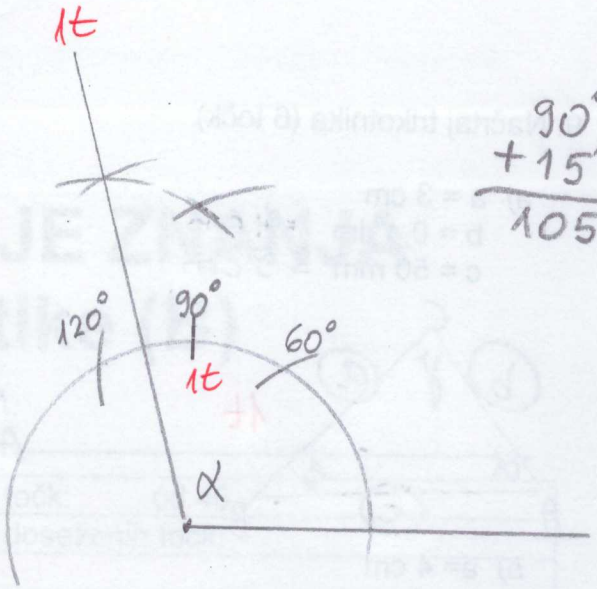


6. S **šestilom** in ravnilom **načrtaj** kota: (3 točke)

a) 90^0



b) 105^0

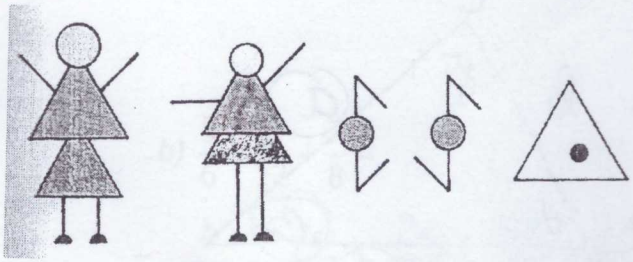


90°
+15°
105°

7. Katere figure so osno in katere središčno somerne? (2 točki)

a) Osno somerne figure: a, b, d 1t

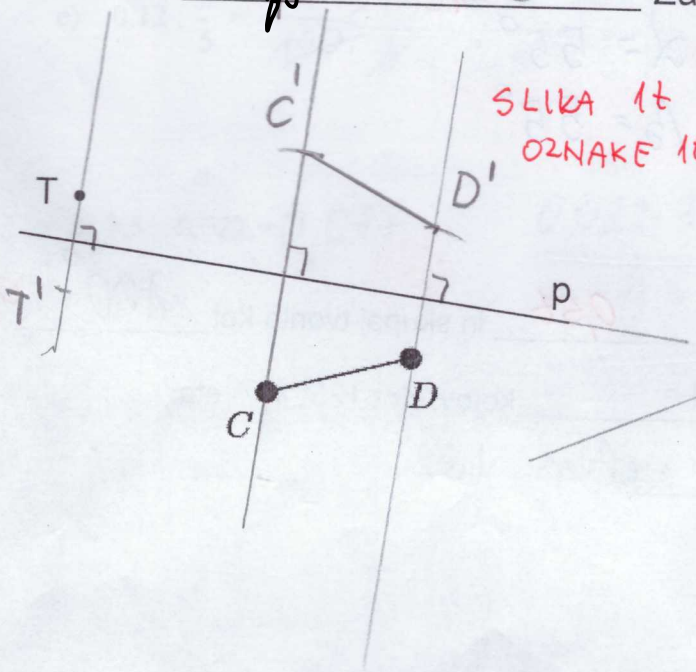
b) Središčno somerne figure: / 1t



8. **Prezrcali** in **zapiši** z matematičnimi znaki: (6 točk)

a) točko T in daljico CD čez premico *p*

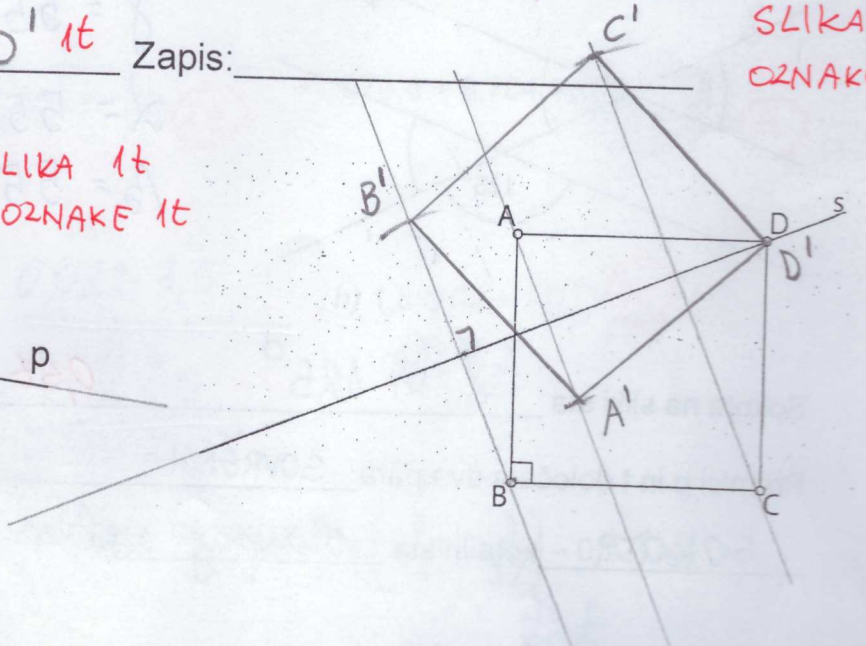
Zapis: $Z_p : CD \to C'D'$ 1t



SLIKA 1t
OZNAKE 1t

b) kvadrat ABCD čez premico s

Zapis:



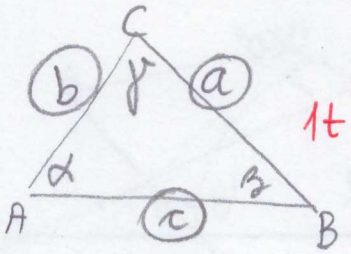
SLIKA 1t
OZNAKE 1t

$Z_s : ABCD \to A'B'C'D'$

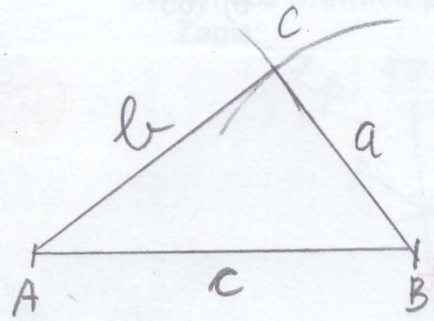
1t

9. Načrtaj trikotnika (6 točk)

a) a = 3 cm
b = 0,4 dm = 4 cm
c = 50 mm = 5 cm

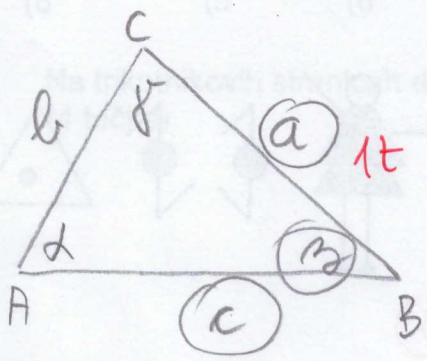


1t

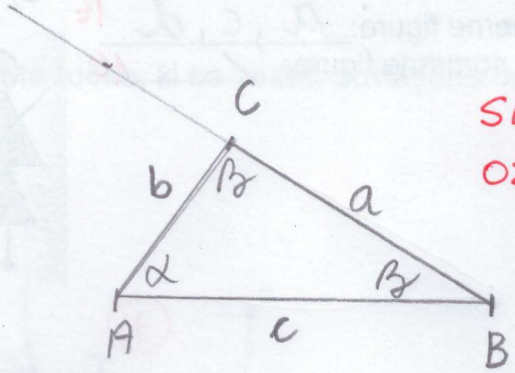


SLIKA 1t
OZNAKE 1t

b) a= 4 cm
c = 5 cm
β = 30°



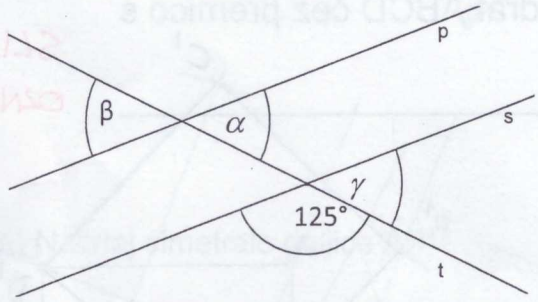
1t



SLIKA 1t
OZNAKE 1t

10. Izračunaj neznane kote in dopolni. (4 točke)

p ll s



$\gamma = 180° - 125°$
$\gamma = 55°$
1t
$\alpha = 55°$
$\beta = 55°$

Sokota na sliki sta γ in 125° 0,5t in skupaj tvorita kot 180° 0,5t.

Premici p in t določata dva para SOVRŠNIH kotov. Kot 125° in γ sta SOKOTA kota in sta skupaj velika 180°.

SKUPINA

200 : 8 = 25
4

B a)

$2\frac{4}{9} - \left(1\frac{1}{3} + \frac{1}{6}\right) =$

$= 2\frac{4}{9} - \left(1\frac{2}{6} + \frac{1}{6}\right) =$

$= 2\frac{4}{9} - 1\frac{3}{6}$ (1t)

$= 2\frac{8}{18} - 1\frac{9}{18} =$

$= 1\frac{26}{18} - 1\frac{9}{18}$

$= \frac{17}{18}$ (1t)

b)

$3{,}75 + \left(1\frac{1}{8} + \left(6\frac{1}{4} - 2\frac{3}{12}\right) - 0{,}1\right.$

$= 3\frac{3}{4} + \left(1\frac{1}{8} + \left(6\frac{3}{12} - 2\frac{3}{12}\right) - \frac{12}{100}\right.$

$= 3\frac{3}{4} + \left(1\frac{1}{8} + 4\right) - \frac{12}{100} =$ (1t)

$= 3\frac{3}{4} + 5\frac{1}{8} - \frac{12}{100} =$

$= 3\frac{150}{200} + 5\frac{25}{200} - \frac{24}{200} =$

$= 8\frac{175}{200} - \frac{24}{200} =$

$= 8\frac{151}{200}$ (1t) $= 8{,}755$

SKUPINA A

a) $9{,}2 - 4{,}2 \cdot 0{,}5 + 1{,}05 : 0{,}5 =$

$= 9{,}2 - 2{,}1 + 2{,}1 =$ (0,5t) (0,5)

$= 7{,}1 + 2{,}1 =$

$= 9{,}2$ (1t)

$4{,}2 \cdot 0{,}5$
$2{,}10$

$10{,}5 : 5 = 2{,}1$
$-- = 5$

b) $12 - \left(3\frac{1}{8} - \left(4\frac{3}{4} - 2\frac{1}{3}\right)\right) =$

$= 12 - \left(3\frac{1}{8} - \left(4\frac{9}{12} - 2\frac{4}{12}\right)\right) =$ (0,5)

$= 12 - \left(3\frac{1}{8} - 2\frac{5}{12}\right) =$

$= 12 - \left(3\frac{3}{24} - 2\frac{10}{24}\right) =$

$= 12 - \left(2\frac{27}{24} - 2\frac{10}{24}\right) = 12 - \frac{17}{24} = 11\frac{7}{24}$ 1t

(0,5)