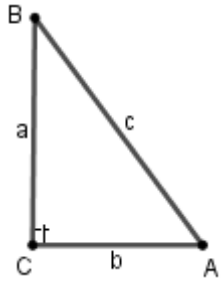
ZAVRŠNI ISPIT ZNANJA **5. razred** **A grupa** **Rješenja**

Zadatak	Rješenje zadatka	Bodovi
1.	a) $564\,789 + 59\,878 = \mathbf{624\,667}$ b) $936\,694 - 79\,896 = \mathbf{856\,798}$	**2**
2.	a) $879 \cdot 54 = \mathbf{47\,466}$ b) $27\,896 : 8 = \mathbf{3\,487}$	**2**
3.	Djelitelji broja 36 su: $\mathbf{1,\ 2,\ 3,\ 4,\ 6,\ 9,\ 12,\ 18,\ 36.}$	**1**
4.	Rastav na proste faktore: $\mathbf{240 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5}$	**1**
5.	$A = \{1, 2, 3, 4\},\ B = \{2, 3, 4, 5, 6\}$ a) $\boldsymbol{A \cap B = \{2, 3, 4\}}$ b) $\boldsymbol{A \cup B = \{1, 2, 3, 4, 5, 6\}}$	**2**
6.	a) $28.534 + 7.96 = \mathbf{36.494}$ b) $27.5 - 14.98 = \mathbf{12.52}$	**2**
7.	a) $5.26 \cdot 10 = \mathbf{52.6}$ b) $6.38 : 100 = \mathbf{0.0638}$	**2**
8.	$\frac{3}{8}$ od 24 kg $= 3 \cdot 3 = \mathbf{9\ kg}$	**2**
9.	a) $7.83 \cdot 6.9 = \mathbf{54.027}$ b) $2.457 : 0.45 = \mathbf{5.46}$	**2**
10.	Pravokutni trokut $a = 4$ cm $= 40$ mm $\underline{b = 35\ \text{mm}}$ $P = (a \cdot b) : 2$ $P = (40 \cdot 35) : 2$ $\boldsymbol{P = 700\ \text{mm}^2}$ 	**2**
11.	$45° = (45 \cdot 60)' = \mathbf{2\,700'}$	**2**
12.	Kocka $\underline{a = 3\ \text{m}}$ $V = a^3$ $V = 3^3$ $\boldsymbol{V = 27\ \text{m}^3 = 27\,000\ \text{L}}$ **U cisternu možemo uliti 27 000 litara ulja.**	**2**

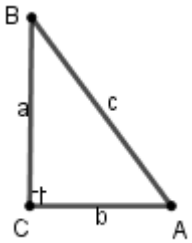
13.	$4 \cdot 2 - 6 : 6 + 2 \cdot (8 \cdot 2 - 1) - 100 : (3 \cdot 3 + 1)$ $= 8 - 1 + 2 \cdot 15 - 100 : 10$ $= 8 - 1 + 30 - 10$ $= \mathbf{27}$	**3**
14.	$(13.45 \cdot 0.6 - 3.6) : 0.01 = (\mathbf{8.07} - 3.6) : 0.01$ $= \mathbf{4.47} : 0.01$ $= \mathbf{447}$	**3**
15.	$a = 1.5, \quad b = 0.25$ $5a + 4b - 2a + 6b = \mathbf{3a + 10b} = 3 \cdot 1.5 + 10 \cdot 0.25$ $= 4.5 + 2.5 = \mathbf{7}$	**3**
16.	Dnevni utržak $= 1\,749$ € kruh 1 $= 128$ komada po 2 € $= 128 \cdot 2 = 256$ € kruh 2 $= 352$ komada po 1 € $= 352 \cdot 1 = 352$ € tjestenina $= 247$ kilograma po 3 € $= 247 \cdot 3 = 741$ € maslinovo ulje po 8 € za bocu maslinovo ulje po 8 € $= [1\,749 - (256 + 352 + 741)] : 8$ $= (1\,749 - \mathbf{1\,349}) : 8$ $= \mathbf{400} : 8$ $= \mathbf{50}$ **Ukupno je prodano 50 boca maslinova ulja.**	**3**

Ukupno: **34 boda**

Prijedlog mjerila ocjenjivanja Završnog ispita znanja:

Broj bodova	**0 – 13**	**14 – 20**	**21 – 25**	**26 – 30**	**31 – 34**
Postotak	0% – 39%	40% – 59%	60% – 74%	75% – 89%	90% – 100%
Ocjena	nedovoljan	dovoljan	dobar	vrlo dobar	odličan

ZAVRŠNI ISPIT ZNANJA **5. razred** **B grupa** **Rješenja**

Zadatak	Rješenje zadatka	Bodovi
1.	a) $586\,789 + 45\,897 = \mathbf{632\,686}$ b) $736\,687 - 89\,789 = \mathbf{646\,898}$	**2**
2.	a) $897 \cdot 64 = \mathbf{57\,408}$ b) $19\,722 : 6 = \mathbf{3\,287}$	**2**
3.	Djelitelji broja 24 su: $\mathbf{1,\ 2,\ 3,\ 4,\ 6,\ 8,\ 12,\ 24.}$	**1**
4.	Rastav na proste faktore: $\mathbf{180 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5}$	**1**
5.	$A = \{0, 1, 2, 3\}, \quad B = \{0, 2, 3, 4, 5\}$ a) $\boldsymbol{A \cap B = \{0, 2, 3\}}$ b) $\boldsymbol{A \cup B = \{0, 1, 2, 3, 4, 5\}}$	**2**
6.	a) $25.87 + 8.539 = \mathbf{34.409}$ b) $29.5 - 16.78 = \mathbf{12.72}$	**2**
7.	a) $2.75 \cdot 10 = \mathbf{27.5}$ b) $95.2 : 1\,000 = \mathbf{0.0952}$	**2**
8.	$\frac{5}{9}$ od 36 km $= 4 \cdot 5 = \mathbf{20\ km}$	**2**
9.	a) $7.83 \cdot 6.5 = \mathbf{50.895}$ b) $1.897 : 0.35 = \mathbf{5.42}$	**2**
10.	Pravokutni trokut $a = 3$ cm $= 30$ mm $b = 25$ mm $P = (a \cdot b) : 2$ $P = (30 \cdot 25) : 2$ $\boldsymbol{P = 375\ mm^2}$ 	**2**
11.	$52° = (52 \cdot 60)' = \mathbf{3\,120'}$	**2**
12.	Kvadar $a = 5$ m $b = 3$ m $c = 2$ m $V = abc = 5 \cdot 3 \cdot 2$ **U cisternu možemo uliti 30 000 litara ulja.** $\boldsymbol{V = 30\ m^3 = 30\,000\ L}$	**2**

13.	$3 \cdot 2 - 7 : 7 + 3 \cdot (7 \cdot 2 + 1) - 100 : (7 \cdot 2 - 4)$ $= 6 - 1 + 3 \cdot 15 - 100 : 10$ $= 6 - 1 + 45 - 10$ $\underline{= \mathbf{40}}$	**3**
14.	$(12.35 \cdot 0.8 - 6.2) : 0.01 = (\mathbf{9.88} - 6.2) : 0.01$ $= \mathbf{3.68} : 0.01$ $\underline{= \mathbf{368}}$	**3**
15.	$\underline{a = 1.5, \quad b = 0.25}$ $7a + 6b - 2a + 4b = \mathbf{5a + 10b}$ $= 5 \cdot 1.5 + 10 \cdot 0.25$ $= 7.5 + 2.5 = \mathbf{10}$	**3**
16.	Dnevni utržak $= 1\,815$ € kruh 1 $= 218$ komada po 2 € $= 218 \cdot 2 = 436$ € kruh 2 $= 347$ komada po 1 € $= 347 \cdot 1 = 347$ € napitak $= 168$ boca po 4 € $= 168 \cdot 4 = 672$ € maslinovo ulje po 9 € za bocu maslinovo ulje po 9 € $= [1\,815 - (436 + 347 + 672)] : 9$ $= (1\,815 - \mathbf{1\,455}) : 9$ $= \mathbf{360} : 9$ $\underline{= \mathbf{40}}$ **Ukupno je prodano 40 boca maslinova ulja.**	**3**

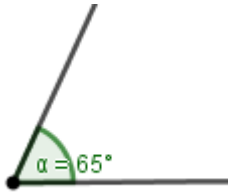
Ukupno: **34 boda**

Prijedlog mjerila ocjenjivanja Završnog ispita znanja:

Broj bodova	**0 – 13**	**14 – 20**	**21 – 25**	**26 – 30**	**31 – 34**
Postotak	0% – 39%	40% – 59%	60% – 74%	75% – 89%	90% – 100%
Ocjena	nedovoljan	dovoljan	dobar	vrlo dobar	odličan

U PRAVU SI, TI TO MOŽEŠ! **Završni ispit znanja**

5. razred

Zadatak	Rješenje zadatka
1.	a) $2\,246 + 652 = \mathbf{2\,898}$ b) $1\,697 - 345 = \mathbf{1\,352}$
2.	a) $1\,328 \cdot 5 = \mathbf{6\,640}$ b) $700 : 100 = \mathbf{7}$
3.	a) $30 : 5 - 5 = 6 - 5 = \mathbf{1}$ b) $5 + 3 : 3 = 5 + 1 = \mathbf{6}$ c) $6 \cdot (10 - 5) = 6 \cdot 5 = \mathbf{30}$ d) $(5 - 5) \cdot 7 = 0 \cdot 7 = \mathbf{0}$
4.	Prekriži brojeve djeljive s 5. **Broj je djeljiv brojem 5 ako mu je posljednja znamenka 0 ili 5.** 4 **10** **35** 46 **60** 92 178 **250** **500** **735**
5.	$A = \{1, 2, 3, 4\}, \quad B = \{2, 3, 4, 5\}$ a) $\boldsymbol{A \cap B = \{2, 3, 4\}}$ b) $\boldsymbol{A \cup B = \{1, 2, 3, 4, 5\}}$
6.	Kutomjerom nacrtaj kut kojemu je mjera 65°. 
7.	Koliki je dio lika obojen? **a)** $\frac{1}{2}$ **lika** **b)** $\frac{1}{3}$ **lika** **c)** $\frac{1}{4}$ **lika**
8.	Zaokruži na cijelo: a) $0.9 \approx \mathbf{1}$ b) $4.2 \approx \mathbf{4}$
9.	**a)** $5.27 \cdot 10 = \mathbf{52.7}$ **b)** $0.3 \cdot 100 = \mathbf{30}$ **c)** $29.4 : 100 = \mathbf{0.294}$ **d)** $854 : 10 = \mathbf{85.4}$

PRIHVATI IZAZ0V! **Završni ispit znanja**

5. razred

Zadatak	Rješenje zadatka
1.	Jedna stranica pravokutnika ima duljinu 20 cm, a druga $\frac{3}{5}$ duljine prve stranice. Izračunaj duljinu stranice kvadrata čiji je opseg 4 puta manji od opsega zadanog pravokutnika. pravokutnik $a = 20$ cm $b = \frac{3}{5}$ od $20 = \mathbf{12\ cm}$ $O = 2(a + b)$ $O = 2 \cdot 32$ $\boldsymbol{O = 64\ cm}$ kvadrat $O = 64 : 4$ $\boldsymbol{O = 16\ cm}$ $O = 4a$ $16 = 4a$ $\boldsymbol{a = 4\ cm}$
2.	Kojim brojem treba pomnožiti zbroj brojeva 3.078 i 0.162 da se dobije njihova razlika? $(3.078 + 0.162) \cdot x = (3.078 - 0.162)$ $\mathbf{3.24} \cdot x = \mathbf{2.916}$ $x = 2.916 : 3.24$ $\boldsymbol{x = 0.9}$ **Treba pomnožiti brojem 0.9.**