

EVALUATOR III EVALUATOR IV NOTA FINALĂ

INSPECTORATUL ȘCOLAR JUDEȚEAN SIBIU



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	Prezenta lucrare conține	pagini.	Numele:											
EVALU	JARE NAȚIONALĂ PEN CLASEI a VI	_	Inițiala prenumelui tatălui: Prenumele:											
	Anul școlar 202	3-2024	Şcoala de proveniență:											
	Matematic	că	Centrul de examen:											
			Județul:											
	Model Decembr	rie 2023												
			Nume și prenume asistent	Semnătura										
Α	COMISIA DE EVALUARE	NOTA (CIFRE ŞI LITERE)	NUMELE ŞI PRENUMELE PROFESORULUI	SEMNĂTURA										
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	EVALUATOR II													
	EVALUATOR III													
	EVALUATOR IV													
	NOTA FINALĂ													
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	EVALUATOR I													
	EVALUATOR II													



- Toate subjectele sunt obligatorii
- Se acordă 10 puncte din oficiu
- Timpul de lucru efectiv este de 2 ore

SUBIECTUL I

Încercuiește litera corespunzătoare răspunsului corect.

(30 de puncte)

5p 1. Se dă mulțimea $A = \left\{ (-3)^2; -\sqrt{\frac{1}{4}}; (-2)^3; \left(\frac{1}{2}\right)^{-1}; \frac{-6}{-2}; \sqrt{\frac{75}{48}}; \sqrt{5}; \sqrt{0,09} \right\}$. Mulțimea $A \cap \mathbb{N}$ este egală cu:

a)
$$\left\{ \left(-3\right)^2; \left(-2\right)^3; \frac{-6}{-2} \right\}$$

b)
$$\left\{ \left(-3\right)^2; \left(-2\right)^3; \left(\frac{1}{2}\right)^{-1}; \frac{-6}{-2} \right\}$$

c)
$$\left\{ (-3)^2; \left(\frac{1}{2}\right)^{-1}; \frac{-6}{-2} \right\}$$

d)
$$\left\{ \left(-3\right)^2; \frac{-6}{-2} \right\}$$

5p 2. Prețul unui obiect este 1200 lei. Dacă prețul obiectului se mărește cu 20%, noul preț este egal cu:

- **a)** 240 lei
- **b**) 960 lei
- c) 1224 lei
- **d**) 1440 lei

5p 3. Dacă $\frac{a}{9} = \frac{4}{b}$, atunci media geometrică a numerelor a și b este egală cu:

- a) $\sqrt{13}$
- **b**) (
- **c**) 6,5
- **d**) 36

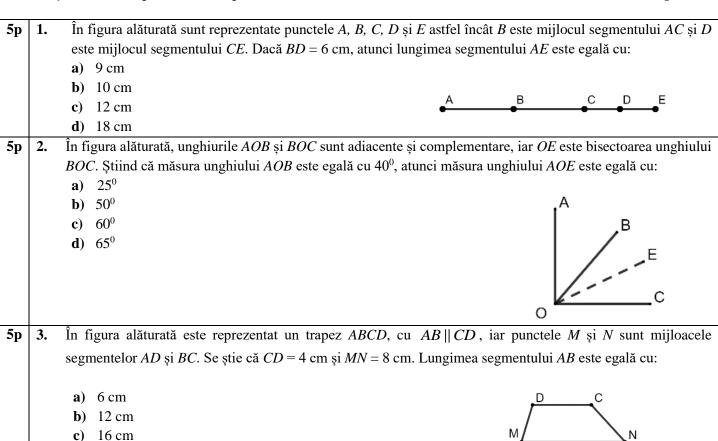
5 p	4.	Rezultatul calculului $2(3x+1)-3(-2x-1)-5$ este egal cu:
		a) $12x$
		b) 12 <i>x</i> -6
		c) 0
		\mathbf{d}) -6
5p	5.	Probabilitatea ca aruncând un zar să se obțină un număr par este egală cu:
		$\mathbf{a}) \frac{1}{6}$
		b) $\frac{1}{3}$
		$\mathbf{c}) \frac{1}{2}$
		d) 2
5 p	6.	Suma numerelor prime de o cifră este egală cu:
		a) 17
		b) 18
		c) 26
	l	d) 27

SUBIECTUL al II-lea

d) 24 cm

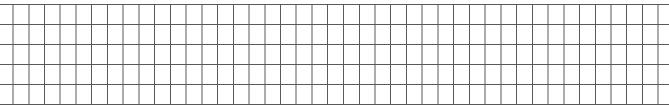
Încercuiește litera corespunzătoare răspunsului corect.

(30 de puncte)

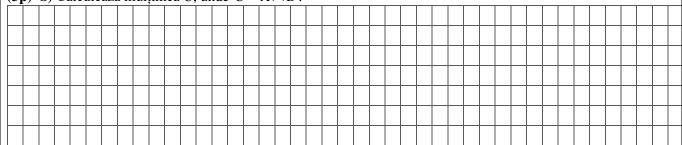


5p	s-au construit înălțimea AD și mediana BE . Dacă $AB = 10$ cm, $BC = 16$ cm, iar $AD \cap BE = \{M\}$, atunci lungimea segmentului MD este egală cu: a) 2 cm b) 3 cm c) 4 cm d) 6 cm																																										
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(2p) a) Arată că mulțimea A = [-3; 4].



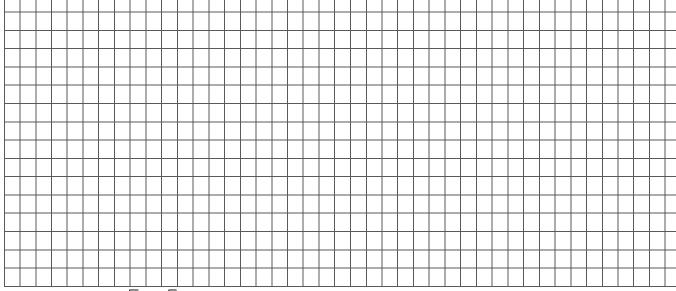
(3p) b) Calculează mulțimea C, unde $C = A \cap B$.



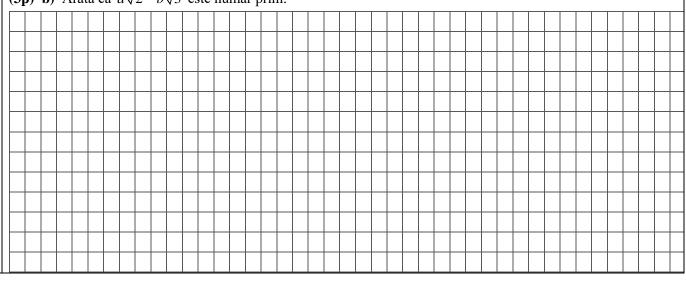
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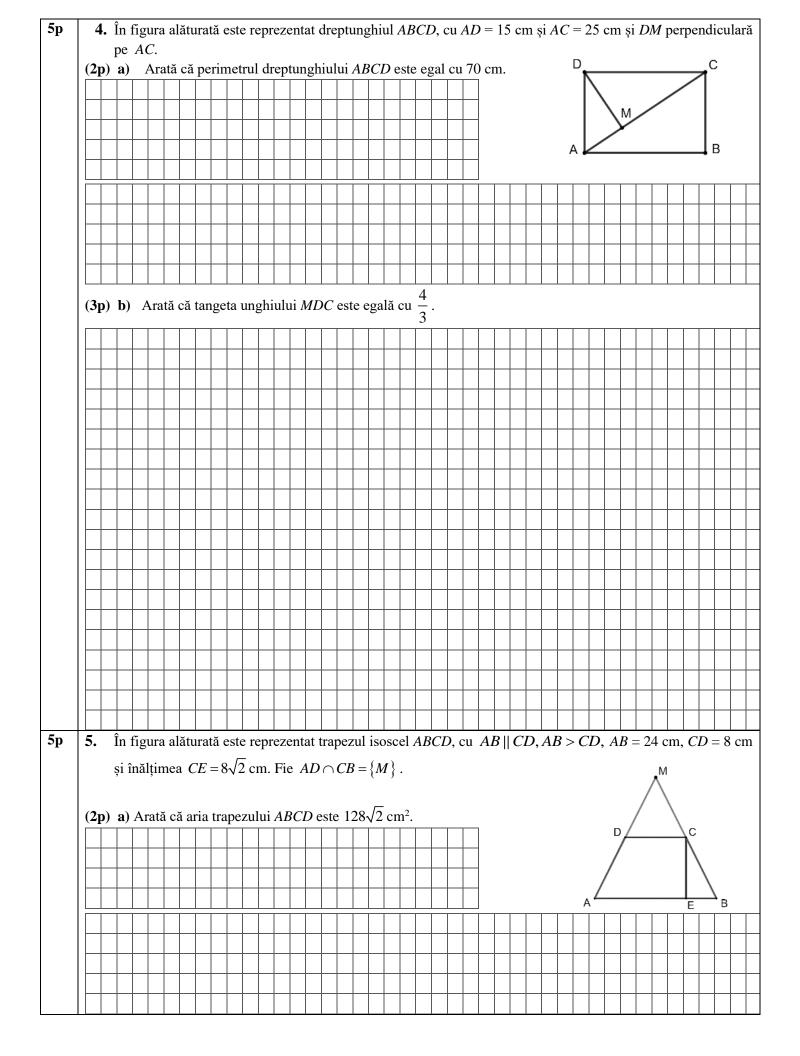
3. Fie numerele $a = \left(\frac{18}{\sqrt{50}} - \frac{10}{\sqrt{18}}\right) \cdot 30$ și $b = \sqrt{20^2 - 16^2} \cdot \frac{1}{4\sqrt{3}}$.

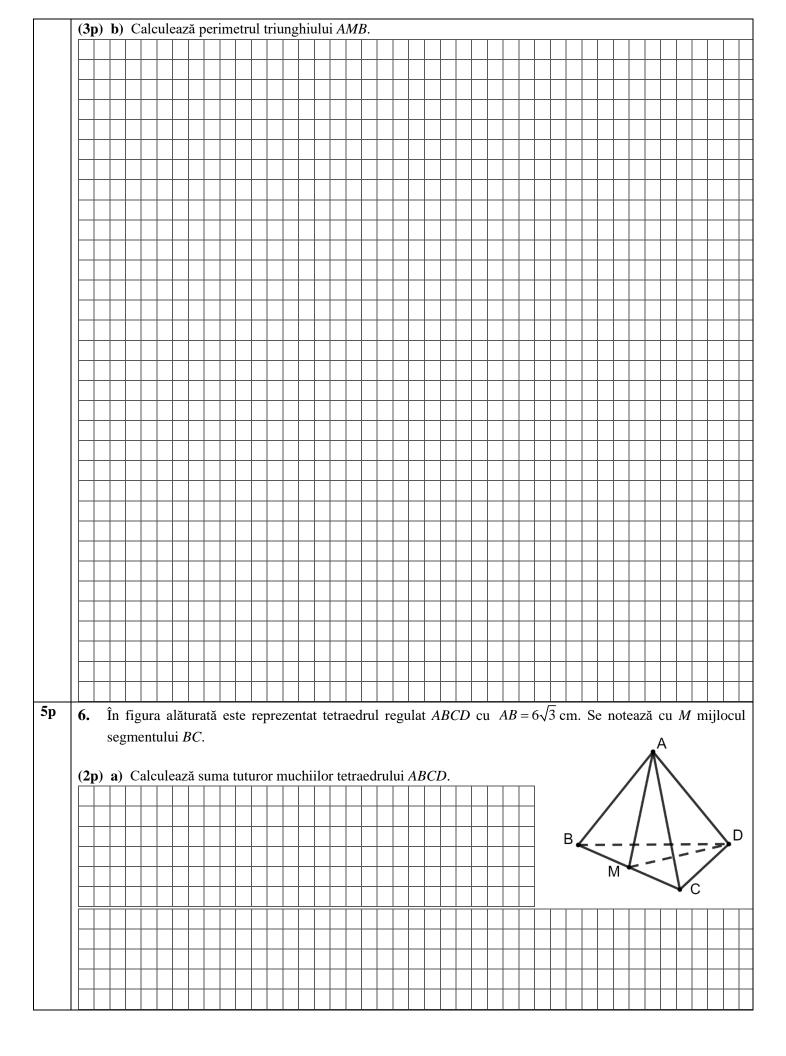
(2p) a) Arată că $a = 4\sqrt{2}$.



(3p) b) Arată că $a\sqrt{2} - b\sqrt{3}$ este număr prim.







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