

UNITED NATIONS COLLEGE I.E.D. PREPARATORY WORKSHOP III TRIMESTER - 2024 MATHEMATICS 502°

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This workshop must be copied and solved in the mathematics notebook, as a requirement to present the competency-based test.

DELIVERY DATE: November 12th

•	Perform the operations in the notebook.		
	Write down the decomposition of each number 87.315.409 = 8 Dm + 7Um+CM+DM+UM+C+D+U		
	=80.000.000 + 7.000.000+		
2.	567.214.904 = 5cm+ Dm + 7Um+ CM+ DM+ UM+ C+ D+ U		
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- > Look at the numbers, then answer:
- 3. In which number does 7 have the highest value?
- 4. In which number does 5 have the lowest value?
- 5. In which numbers does 9 have equal value?

- > 795.608.013
- > 38.967.597
- **>** 17.905.528.403
- > 9.012.538.701
- **>** 180.937.250

- Find the Powers
- 6. 5 3
- 7. 8 5
- 8. Luis bought 6 boxes of paints. Each box has 6 cases and each case has 6 paints. How many paintings do I buy?



9. Sebastián wants to cycle 17.9 km, he has already covered 9.26km. How many kilometres do you have left to go?



10. A farmer harvested 345.57 kg of olives on Saturday and 568.06 kg on Sunday. How many kilos of olives did he collect over the weekend?



- 11. Write as each decimal number is read
 - **4** 17,64
 - **4** 9,07
 - **4** 203,5
 - **4** 25,036
- > Look at the table that records the area of the 5 smallest countries in the world, then answer.
- 12. Is it the smallest country in the world?
- 13. It organizes the smallest countries in the world from smallest to largest area.

COUNTRY	AREA (Km2)
Monaco	1, 95
Nauru	21,2
San Marino	61,2
Vatican	0,44
Tuvalu	26

14. Hugo drinks 43.85 liters of water a week. How many liters of water do drink each day?



you

15. Complete the following table

Figure	Number of sides	Number of vertices	Name

- 16. Draw 2 regular polygons
- 17. Draw 2 irregular polygons
- 18. What is the name of the polygon that has 10 sides?
- 19. Make a drawing using polygons.

- > Find the mean, medium and mode
- 20. Federico studies for his exam and records the following information

Days	Hours
Monday	3
Tuesday	2
Wednesday	2
Thursday	2
Friday	1
Saturday	3
Sunday	1

21. A survey about the favorite fruit is carried out on the third grade students and these are the results obtained.

Fruit	Votes
Strawberry	10
Mango	6
Papaya	2
Kiwi	14
Grapes	8

22. A group of 50 grandparents were asked what their favorite color is and their answers were:

Colour	Votes
Red	
Green	2
	4
Yellow	
	1
Pink	
Lilac	7
Black	
	3
Grey	8

> Apply the rule of three

- 23. To prepare 3 glasses of juice, use 5 oranges. How many oranges do you need for 8 glasses of iuice?
- 24. Yes, 4 cookies cost 3,200. How much do 7 cookies cost?

Resolves the following issues

Camilo wants to buy his mother a bouquet of roses and some chocolates. He has saved 174,300 pesos. At the florist you have the following options.

OPTION 1

- Bouquet 12 roses
- Small chocolate bar
- > Value: \$83,200

OPTION 2

- ➤ Bouquet 24 roses
- Medium chocolate bar
- > Value: \$160. 500

OPTION 3

- ➤ Bouquet 36 roses
- Large chocolate
- Value: \$ 240,800



- 25. What options can you buy?
- 26. How much money do you need to be able to buy option 3?
- 27. How much money do you have left over, if you buy option 1?
- 28. José bought a printer that cost \$ 875,300. if you expect to pay it in 23 monthly installments. How much money should you pay monthly?







29. Write the signs in such 📥 💻 🧰 🗶 a way that the indicated results are obtained

- 12 2 = 86 4 12 3 2 = 166 4 12 6 3 4 2 = 12
- 12 3 4 2 = 56
- 30. Alejandro bought 5 identical desks, a library and a computer for his office, all for a value of \$4,860,000. The library cost \$450,000 and the computer \$1,500,000. How much did each desk cost?