



UNITED NATIONS COLLEGE I.E.D.
PREPARATORY WORKSHOP
III TRIMESTER - 2024
MATHEMATICS 402°

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

DELIVERY DATE: November 12th

1. Write how the following numbers read:

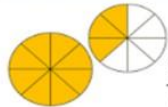
- 12.003.052
- 7.207.603
- 40.050.001
- 9.100.406
- 30.409.700

2. Enter the number before and after

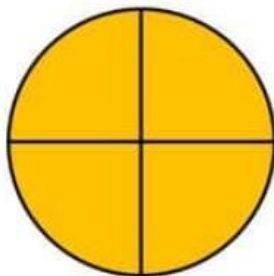
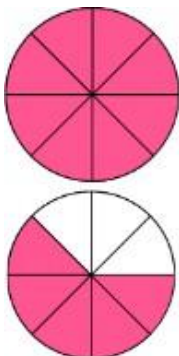
24.509.999	
9.999.999	
4.000.000	
18.106.999	
45.000.109	

3. Write the following numbers in English

- 980
- 317
- 405
- 269
- 195

Fracciones Propias: El numerador es menor que el denominador, por lo tanto, la fracción es menor que la unidad.	 $\frac{6}{8} < 1$
Fracciones impropias: El numerador es mayor que el denominador, por lo tanto, la fracción es mayor que la unidad.	 $\frac{11}{8} > 1$
Fracciones aparentes: El numerador es igual que el denominador, por lo tanto, la fracción es igual a la unidad.	 $\frac{8}{8} = 1$

4. Write the corresponding fraction and what type of fraction it is



5. Perform the following homogeneous fraction operations

$\frac{5}{9} + \frac{3}{9} = \text{---}$	$\frac{6}{8} - \frac{3}{8} = \text{---}$
$\frac{2}{8} + \frac{1}{8} = \text{---}$	$\frac{5}{12} - \frac{1}{12} = \text{---}$
$\frac{6}{24} + \frac{8}{24} = \text{---}$	$\frac{7}{14} - \frac{3}{14} = \text{---}$

6. Perform the following heterogeneous fraction operations

$\frac{7}{8} + \frac{3}{5} =$	$\frac{2}{7} - \frac{1}{8} =$
$\frac{5}{6} + \frac{3}{4} =$	$\frac{7}{12} + \frac{6}{4} =$
$\frac{7}{9} + \frac{2}{7} =$	$\frac{5}{16} - \frac{1}{4} =$

7. Perform the following operations with more than two fractions

$$\frac{9}{2} + \frac{2}{7} + \frac{3}{4} =$$

$$\frac{9}{2} - \frac{2}{7} - \frac{3}{4} =$$

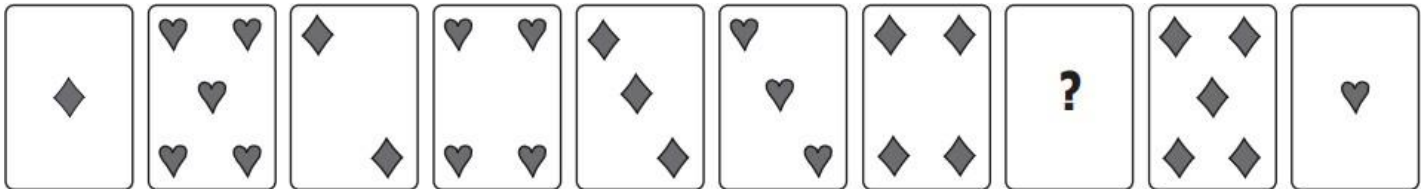
8. Complete the following table with double and triple each number

	Double X2	Triple X3
34		
26		
19		
40		
52		

9. Felipe scored 12 points, Yoseph twice as much as Felipe, and Camila three times as many as Yoseph. How many points did Yoseph get? How many points did Camila get?
10. Justin had some candy saved, ate half and gave away 8, if he has 10 left, how many candies did Justin have saved?
11. Kimberly enters a store and finds the following list of items, if she wants to buy 2 different items in the store to give them to her siblings but she must spend as little as possible, then What items should Kimberly buy?

Camiseta: \$15.000
Pantaloneta: \$10.000
1 par de medias: \$5.000
Gorra: \$15.000

12. Notice the following sequence of numbers and figures on the cards; and draw the card that should go in the question mark to keep the sequence going.

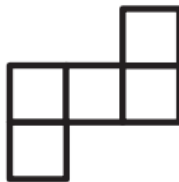


13. Melissa was given 4 pieces of cardstock like the ones shown below and she must build a cube, so which of the pieces should Melissa choose?

Pieza I.



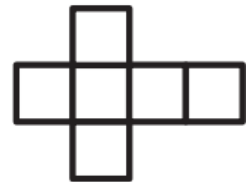
Pieza II.



Pieza III.



Pieza IV.



14. Analyze and solve the following problems

- With 5 sewing machines, 95 garments were made yesterday. If there are only 3 machines available today, how many garments will you make today?
- Andrea for her birthday invited 13 friends from school and 18 friends from the neighborhood, if she wants to give each one a toy that costs \$867, how much money will she need?
- Group 402 has 267 puzzle tiles and group 401 has 197. If each group loses 79 chips. How many chips do you have now?
- The school has organized a pedagogical outing, to which 58 first-year children go; 65 second-year children; 47 children in the third year; 82 fourth grade children; 128 children in fifth grade. If you have 23 buses, How many children will go on each bus?