



Name: _____

Grade: 6A/B

Math exercises.

1 - Complete the following table with yes (Y) or no (N).

	Divisible by 2	Divisible by 3	Divisible by 4	Divisible by 5	Divisible by 6	Divisible by 9	Divisible by 25
504							
1,386							
2,019							

2 - Replace \square by the missing digit. Write all the possibilities.6 2 \square is divisible by 3. _____5 4 \square is divisible by 9. _____7 \square 6 is divisible by 4. _____3-Find the GCD of each pair:

- a) 25 and 26
- b) 40 and 30
- c) 24 and 36
- d) 42 and 28

4 - a) What does **20** represent **with respect to 60**?b) What is the G.C.D. of the numbers **20** and **60**? **Why**?

5-Complete by filling the empty boxes:

a) $\frac{16}{32} = \frac{\dots\dots}{16} = \frac{\dots\dots}{8}$

b) $\frac{8}{8} = \frac{\dots\dots}{24} = \frac{32}{\dots\dots}$

c) $\frac{21}{14} = \frac{3}{\dots\dots} = \frac{\dots\dots}{28}$

d) $\frac{13}{26} = \frac{\dots\dots}{260}$

- 6 - Katy is making identical balloon arrangements for a party. She has **24 white balloons** and **16 orange balloons**. She wants each arrangement to have the same number of color.
- What is the greatest number of arrangements that she can make if every balloon is used?
 - How many balloons of each color will there be in each arrangement?

7- Simplify the following Fractions:

a) $\frac{22}{33}$ b) $\frac{126}{105}$ c) $\frac{54}{42}$ d) $\frac{800}{600}$ e) $\frac{16}{20}$

8 - a) Find the GCD of 32 and 48

b) Divide the numerator and denominator of the fraction $\frac{32}{48}$ by their GCD. Find the fraction that is equal to it.

c) Is the obtained fraction in part 2 irreducible? Justify your answer.

9 - Consider the fraction $\frac{16}{28}$.

- Reduce this fraction, and then find all the fractions that are equivalent to the reduced one but with a denominator less than 50.
- Is $\frac{16}{28}$ a decimal fraction?

10 - Write each of the fractions below as a decimal fraction, then give its equivalent decimal number:

$$\frac{1}{4} =$$

$$\frac{2}{5} =$$

$$\frac{30}{4} =$$

$$\frac{98}{25} =$$

11- Given the decimal fraction $\frac{3}{10}$. We add 5 to both terms of the fraction.

- What is the new (obtained) fraction?
- Is it a decimal fraction? Why or Why not?
- What is its decimal number?

12- What does the fraction of the red rectangle represent to the square? Transform this fraction into a decimal fraction.

