

NEW CAMBRIDGE SCHOOL	
FACULTY/FACULTAD	CIENCIAS EXACTAS
ÁREA	Math
TEACHER	Brayan Quintanilla
GRADE	6th grade
DATE/FECHA	24th August 2020
STUDENT	

META:

The student will be able to use characteristics and properties of integers to perform arithmetical operations and manage the properties of powers and roots in the solution of word problems.

Learning Objectives:

The student will be able to identify whether a number is divisible by another number.



GUÍA # 1
WORKSHEET 1 – DIVISIBILITY RULES

EXPLAIN/ EXPLICACIÓN		
Divisible by	Rule	Example
1	Any number is divisible by 1	Any
2	The last digit is an even number	22,468
3	The sum of the digits is divisible by 3	4,572
4	The last 2 digits are divisible by 4	516
5	The last digit is 0 or 5	455
6	It's an even number and it's also divisible by 3	444
7	Double the last digit and subtract it from a number made by the other digits, the result must be divisible by 7. We can apply this rule to that answer again	672
8	Halve the number three times	2,072
9	The sum of the digits is divisible by 9	459
10	The number ends in 0	780

11	Add and subtract digits in an alternating pattern (add digit, subtract next digit, add next digit) After check if the answer is divisible by 11	81,521
12	The number is divisible by both 3 and 4	6,144

ELABORATE/ EJERCITACIÓN (GUÍA - TAREA)

Exercise 1. Choose one of the following numbers and state whether the number is divisible by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

Number	Divisible by											
	2	3	4	5	6	7	8	9	10	11	12	
53,764												
92,576												
36,696												
46,388												
81,270												
3,825												
57,330												
84,567												
42,104												
342,342												

Exercise 2. 32 players are entered in a volleyball tournament. Each team has the same number of players. How many players could there be on a team?

a. 10

b. 5

c. 2

Answer: _____

Exercise 3. Mr Brayan is arranging 90 pictures in a scrapbook; He wants to put the same number of pictures on each page. How many pictures could Mr Brayan put on each page of the scrapbook?

a. 4 pictures

b. 10 pictures

Answer: _____

Exercise 4. Fill in the smallest digit to make the number divisible by:

a. By 5	71,64____	321,97____
b. By 3	1,____43	47,____05
c. By 7	____,536	4,44____
d. By 11	6,____24	42,____84

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DATE /FECHA DE CREACIÓN:	DATE APPROVED/ FECHA DE APROBACIÓN:
24th August 2020	3rd September 2020