

The Primary Stage of Grades (4-5)
School Year 2022 - 2023

Name: Key
Date: / / 2022

Subject: Math
Class: Grade 4 CP (C, D, E, F & G)

Worksheet (6)

Objectives:

- Understand and apply divisibility rules.

Divisible means can be divided without a remainder.

The number is divisible by	If it meets the following conditions	Example
2	It is even Ends with (0 Or 2 Or 4 Or 6 Or 8)	152 398 150
3	Sum of the digits a multiple of 3	54 $5+4=9$ (9 is a multiple of 3) 654 ($6+5+4=15$) 15 is a multiple of 3
4	The last 2 digits a multiple of 4 or divisible by 4 OR 00	512 936 128 12 , 36 and 28 are all multiples of 4
5	The number ends with 5 OR Zero	620 135
6	The number is EVEN and a multiple of 3	654 even and sum of the digits is a multiple of 3. $6+5+4=15$ 15 is a multiple of 3
9	Sum of the digits a multiple of 9	792 ($7+9+2=18$) 18 is a multiple of 9
10	The number ends with at least one Zero	60 800
25	The number ends with 00 OR 25 Or 50 Or 75	325, 250, 875 , 400

3) Circle the letters that are divisible by the given number. Write the letters in the order in the last column. Place those letters in order at the bottom of page to complete the puzzle.

1st step sum of digits on the side
2nd step write rules on top

um	Numbers	Divisible by					Letters
		3	4	5	8	9	
18	= 99	(A)	T	U	J	(B)	AB
20	35,840	Z	(I)	(R)	(D)	K	IRD
13	6,025	Q	Y	(I)	A	M	I
19	856	O	(N)	D	(H)	E	NH
9	45	(A)	P	(N)	L	(D)	AND
10	13,420	K	(I)	(S)	U	R	IS
9	144	(W)	(O)	X	(R)	(T)	WORT
18	684	(H)	(T)	B	O	(W)	HTW
9	1,017	(O)	D	Y	K	(I)	O I
12	48	(N)	(T)	V	(H)	A	NTH
26	71,936	S	(E)	T	(B)	(Q)	EB
27	7,965	(U)	P	(S)	C	(H)	USH

A BIRD IN HAND IS

WORTH TWO IN THE BUSH

1st step
Sum of digits (+)

2nd step odd/even

4) Use your knowledge of divisibility rules and circle each factor that the number is divisible by.

$57 = 12$ Is divisible by odd 2, 3 , 4, 5, 6, 9, 10, 25	$84 = 12$ Is divisible by even 2 , 3 , 4 , 5 , 6 , 9, 10, 25
even $342 = 9$ Is divisible by 2 , 3 , 4, 5, 6 , 9 , 10, 25	$453 = 12$ Is divisible by odd 2, 3 , 4, 5, 6, 9, 10, 25

5) Put a (✓) if the number on the left is divisible by the number of each column. (The first one is done for you).

2nd rule (write Rules)

1st step
Sum

Sum		Divisible by 2 even	Divisible by 3 Sum	Divisible by 4 22	Divisible by 6 2, 3	Divisible by 9 Sum	Divisible by 25 00/25, 50, 75
3	<u>300</u>	✓	✓	✓	✓		✓
15	<u>843</u>		✓				
16	<u>925</u>						✓
18	<u>198</u>	✓	✓		✓	✓	
16	<u>736</u>	✓		✓			
13	<u>2380</u>	✓		✓			

