



Unit 10

Name: _____

Lesson 10.3

Grade 5A

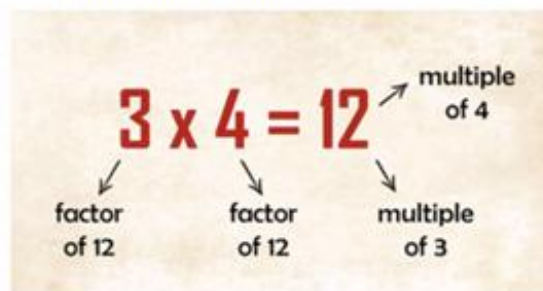
Date: _____

Tests of Divisibility

Worksheet (15)

Objective(s): Understand the divisibility rules of 2, 3, 5, 6, 9, 10, 6, 9 and 25.

Divisible - When one number can be divided by another and the result is an exact whole number (an answer with no remainders).



12 is divisible by 4 $\Rightarrow 12 \div 4 = 3$ \Rightarrow no remainder.

12 is divisible by 3 $\Rightarrow 12 \div 3 = 4$ \Rightarrow no remainder.

Divisibility RULES

Divisibility Rule for 6

$\div 6$

The number is divisible by 2 and 3

Number	Divisibility Rules
2	Units Digit is even (2,4,6,8,0)
3	The sum of the digits is a multiple of 3
5	The units digit is 5 or 0
9	The sum of the digits is a multiple of 9
10	The units digit is 0
25	The number formed by the last 2 digits is divisible by 25. Ends in 00, 25, 50, 75
	125, 650, 475

- 1 Fill in the boxes and answer with either 'yes' or 'no'.

Divisible by 2 ?	
56	
101	
250	
3,077	
22,098	

Divisible by 5 ?	
74	
125	
280	
1,090	
24,013	

- 2 a) Put a (✓) under each corresponding column to identify whether each given number is exactly divisible by 2, 5 and 10 .

	2	5	10
90			
234			
555			
860			
4286			

- b) Complete the sentence below.

All numbers end with are divisible by 2, 5 and 10 at the same time.

- 3 Fill each box with a number to complete the diagram.

Divisible by 3 and 9	<input type="text"/>	0	<input type="text"/>
Divisible by 3 and 5	9	1	<input type="text"/>
Divisible by 2 and 9	5	<input type="text"/>	4
Divisible by 6 and 5	3	<input type="text"/>	0

- 4 These children make some statements about numbers.
A set of numbers are sorted using a Carroll diagram.

	A multiple of 3	Not a multiple of 3
A multiple of 6	A	B
Not a multiple of 6	C	D

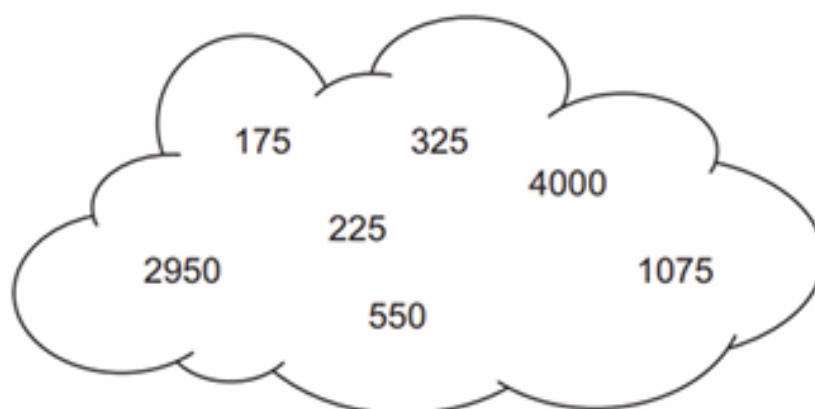
- a) Draw a ring around the section that will always be empty.

A B C D

- b) Draw a ring around the section that will always contain even numbers.

A B C D

- 5 The numbers in the cloud are all divisible by the same three numbers.



Complete the sentence.

All the numbers are divisible by 1, 5 and

- 6 For each number on the left, place a check mark under the numbers it is divisible by.

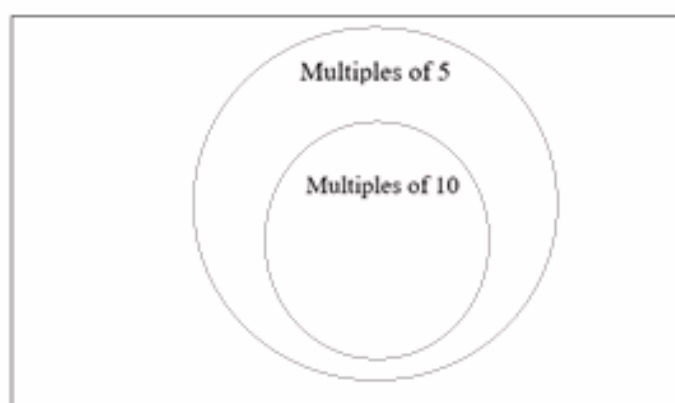
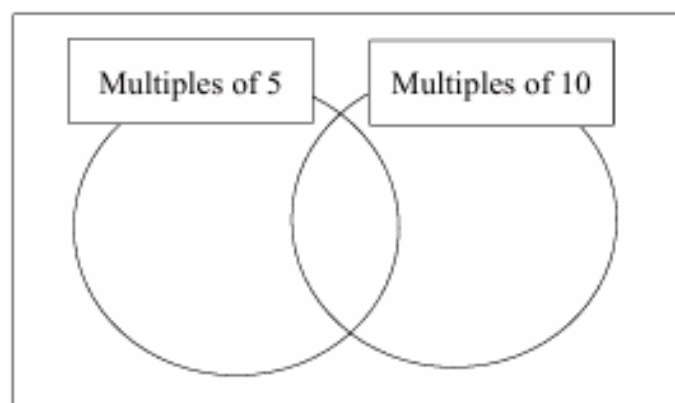
	Divisible by....					
Number	2	3	5	6	9	10
45						
369						
7,870						
1,976						
6,003						
136						
1,674						
35,496						

- 7 Put a ring around all the numbers that have 25 as a factor.

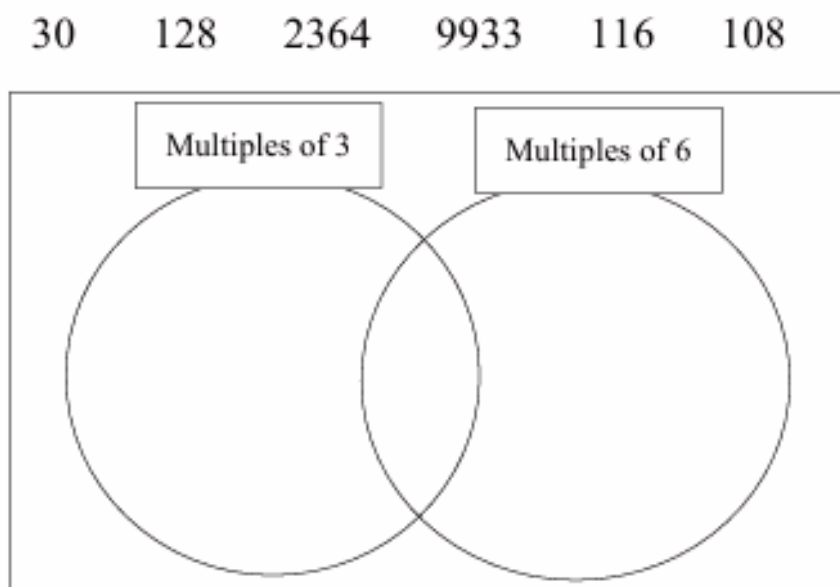
3400 125 670 7675 1000 1850 752

- 8 Here are two types of Venn diagrams for sorting numbers.
Write each number in the correct place on these Venn diagram.

30 135 110 40 2055 112



- 9 a) Write each number in the correct place on this Venn diagram



- b) Put a (X) next to the statement that is wrong. Justify your answer with an example.

All multiples of 3 are also multiples of 6 . ☐ Example:

All multiples of 6 are also multiples of 3 . ☐ Example:

- 10 Sarah collected 943 stamps. She wants to share these stamps between her and her eight friends.

Can these stamps be shared equally? Explain your answer.

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