Name:	 Period:	

## Divisibility Worksheet

Number	Digit Sum	2	3	4	5	6	8	9	10	Number Divisible by:
1248	1+2+4+8=	V	√	V		7				2, 3, 4, and 6
15										
16								,		
27										
28										
36										
57										
70										
75										
91										
93										
102									ļ	
144										
150										
168										
195		-								
225				<del></del>						
256										
268										
316										
450										
549										
1470						ļ				
4518										
7120										

## **Divisibility Rules**

- 2 The last digit will be 0, 2, 4, 6, 8
- 3 The sum of the digits is a multiple of 3  $(3654...3 + 6 + 5 + 4 = 18 (18 \div 3 = 6))$
- 4 The last two digits are a multiple of 4 (123<u>64</u>....64 ÷ 4=16)
- 5 The last digit will be 0 or 5
- 6 The number is divisible by BOTH 2 & 3
- 8 The last three digits are divisible by 8
- 10 The last digit will be 0
- 12 The number is divisible by **BOTH** 3 & 4
- 15 The number is divisible by **BOTH** 3 & 5

1.

432

3 5 10

2.

**357** 

is this number divisible by... is this number divisible by...

3 5 10

3. 2,360

**4**.

5,671

is this number divisible by... is this number divisible by...

3 5 10 2

5 2 3 10

5. 16,303

6.

38,475

is this number divisible by... is this number divisible by...

2 3 5 10

2 3 5 10

400,005

is this number divisible by...

2 3 5 10

8. **782,340** 

is this number divisible by...

2 3 5 10

9. 7,321,694

10. **6,862,356** 

is this number divisible by... is this number divisible by...

2 3 5 10

2 3 5 10

nc	ım	Δ											d	ate					
Dir	ecti		Se S	jour n	otes c	n <u>Rul</u>	es of I	Divisik	oiLity	to complet	te this	Page			——— ch divis	or tha	t the n		r is
l.				4	3:	2					2.				35	7			
	is	+his	S 1	nun	ber	di∨	isible	bų	<b>J</b>		i	is 1	lhis	nur	nber	di∨	risible	by.	) d u
2		3	4	5	6	7	8	9	10		2	3	4	5	6	7	8	9	10
3.	ı		4	2,:	36	0					4.			5	,6	71			
	is	+his	s t	num	ber	div	isible	þŲ	<b>]</b>		ĵ	is 1	his	nur	nber	di∨	risible	by.	188
2	,	3	4	5	6	7	8	9	10	)	2	3	4	5	6	7	8	9	10
5.	00 OA 007 J	ar on one or are	1	6,	30	<b>)</b> 3		to the sec and	. War and the the	en e	6.	and the same and	. w. we .v. ex. v.	38	3,4	.7:	5	we have now over more too	\$ 100° AV 304 VA
	is	+his	s r	num	ber	div	isible	by	<b>J</b>		i	is 1	his	nur	nber	di∨	risible	by.	144
2		3	4	5	6	7	8	9	10		2	3	4	5	6	7	8	9	10
7.		4	4(	<b>)</b> (	),C	00	5				8.	·	7	'8:	2,3	34	-0		
	is	∔his	s r	num	ber	di∨i	isible	by	<b>J</b>		i	S 1	his	nun	nber	di∨	isible	by.	
2		3	4	5	6	7	8	9	10	TO SO ON	2	3	4	5	6	7	8	9	10
9.		7	7-	32	27,	69	)4				10.	. (	6,	86	52	,3	56	)	
	is	+his	s r	num	ber	divi	isible	by	<b>]</b>		i	s 1	his	nun	nber	di∨	isible	by.	***

2 3 4 5 7 8 9 10 6

2 3 4 5 10 8 Page 1

	_
nar	ne

3.

5.

date

is this number divisible by...

588

3 5 10

4,132

is this number divisible by...

3 5 10

Directions: Use your notes on Rules of Divisibility to complete this page. Circle each divisor that the number is divisible by.

2.

4.

1.

210

is this number divisible by...

3 5 10

1,105

is this number divisible by...

2 3 5 10

6. 13,156

2.

20,043

2 3 5 10

is this number divisible by... is this number divisible by...

2 3 5 10

7. **211,032** 

is this number divisible by...

2 3 5 10

8. 362,880

is this number divisible by...

2 3 5 10

9. **2,031,037** 

is this number divisible by...

2 3 5 10

10. 4,128,796

is this number divisible by...

2 3 5 10

	IME _ ections: l	lse your	notes c	on <u>Rul</u> a	es of D	)ivisib	<u>ility</u> to	complet	te this	Page.		a <del>le</del> ale eacl	n diviso	or that	the nu	ımber	~ is
divi 1.	isible by.	2	210	)					2.			5	8	8			
	is thi	is nun	nber	di∨i	sible	by	•••		j	s #	nis	num	ber	di∨i	sible	by.	
2	3	4 5	6	7	8	9	10	over the that were also take that also	2	3	4	5	6	7	8	9	10
3.		1,	10	5					4.			4,	13	32			
	is <del>I</del> hi	s nun	nber	di∨i	sible	by	•••		j	s H	nis	num	ber	di∨i	sible	by.	••
2	3	4 5	6	7	8	9	10		2	3	4	5	6	7	8	9	10
5.	the two are over one to the are a	20	,0	43	3	Ma der eer van 'n van 'n	and the second second second second	the form of the same and the same	<b>6</b> .	te the new new new two	eny any man ma	13	,1:	56	NA 200 AO 800 AO 40	tr van von der der von	a stati akki taka ang
	is thi	s nun	nber	ďi∨i	sible	by	•••		j	s H	nis	num	ber	di∨i	sible	by.	••
2	3	4 5	6	7	8	9	10		2	3	4	5	6	7	8	9	10
7.		21	1,0	32	2				8.		3	62	2,8	38	0		
	is thi	s nun	nber	divi	sible	by	•••		į	s H	nis	num	ber	divi	sible	by.	••
2	3	4 5	6	7	8	9	10	an na na an an an na na na	2	3	4	5	6	7	8	9	10
9.	2	2,03	31,0	03	37				10.	4	4,	12	8,	79	96		
	is thi	s nun	nber	di∨i	sible	bu.	•••		i	s Hr	nis	num	ber	di∨i	sible	bu	

2 3 4 5 6 7 8 9 10 2 3 4 5 6 7 8 9 10 Page 2 Copyright © 2012 Joy M Hall.