

Divisibility Rules*Mental Math*

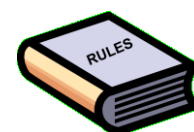
Directions: Study the divisibility rules and complete the table. Practice using mental math and show work as needed; no calculators.

A number is divisible by	Divisible	Not Divisible
2 if the last digit is even (0, 2, 4, 6, 8).	1,334	465
3 if the sum of the digits is divisible by 3.	306	79
4 if the last two digits form a number divisible by 4.	924	621
5 if the last digit is 0 or 5.	85	132
6 if the number is divisible by 2 and 3.	1,332	44
8 if the last three digits form a number divisible by 8.	1,864	3,180
9 if the sum of the digits is divisible by 9.	144	33
10 if the last digit is 0.	270	543

• Tell whether each number is divisible by 2, 3, 4, 5, 6, 8, 9, or 10.

A. 549 is divisible by
 3; the sum of the three digits is divisible by 3.
 9; the sum of the digits is divisible by 9.

B. 410 is divisible by
 2; the last digit is even.
 5; the last digit is 0 or 5.
 10; the last digit is 0.



1. Place an “x” in each box if the number is divisible by 2, 3, 4, 5, 6, 8, 9, or 10.

(Hint: These are quick problems. If it works, mark it and move on. There are 24 correct answers.)

	2	3	4	5	6	8	9	10
56								
75								
200								
615								
744								
324								
5,188								

2. What is the number between 80 and 100 that is divisible by both 5 and 6?

Work Space (Remember, you guarantee correct answers if you choose not to show work!)

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Mental Math

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A. 549 is divisible by

3; the sum of the three digits is divisible by 3.

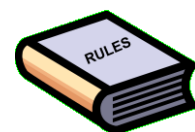
9; the sum of the digits is divisible by 9.

B. 410 is divisible by

2; the last digit is even.

5; the last digit is 0 or 5.

10; the last digit is 0.



1. Place an “x” in each box if the number is divisible by 2, 3, 4, 5, 6, 8, 9, or 10.

(Hint: These are quick problems. If it works, mark it and move on. There are 24 correct answers.)

	2	3	4	5	6	8	9	10
56	x		x			x		
75		x		x				
200	x		x	x		x		x
615		x		x				
744	x	x	x		x	x		
324	x	x	x		x		x	
5,188	x		x					

2. What is the number between 80 and 100 that is divisible by both 5 and 6? 90

Work Space (Remember, you guarantee correct answers if you choose not to show work!)