Divisibility Practice
Applying Rules

Directions: Study the divisibility rules and complete the tables. 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

1. Place an "x" in each box if the number is divisible by 2, 3, 4, or 5.
   (Hint: These are quick problems. If it works, mark it and move on. There are 14 correct answers.)

	2	3	4	5
146				
369				
195				
684				
240				
235				
486				

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

2. Place an "x" in each box if the number is divisible by 6, 8, 9, or 10.
   (Hint: There are 18 correct answers.)

	6	8	9	10
240				
650				
936				
3,240				
612				
306				
792				

Work Space

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   (Hint: These are quick problems. If it works, mark it and move on. There are 14 correct answers.)

	2	3	4	5
146	x			
369		x		
195		x		x
684	x	x	x	
240	x	x	x	x
235				x
486	x	x		

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

2. Place an "x" in each box if the number is divisible by 6, 8, 9, or 10.
   (Hint: There are 18 correct answers.)

	6	8	9	10
240	x	x		x
650				x
936	x	x	x	
3,240	x	x	x	x
612	x		x	
306	x		x	
792	x	x	x	

Work Space