Divisibility Rules

Divisible by:		
Try these by using either short	division or long division.	
Is 348 divisible by 6?	Is 12,983 divisible by 3?	Is 99,028 divisible by 4?
348 ÷ 6	12,983 ÷ 3	99,028 ÷ 4
Yes or no?	Yes or no?	Yes or no?

The owner of a sporting goods store has \$8,145 to give to his 9 employees as bonuses. Will each employee receive the same amount if he uses all of the money?



An M&M factory has 23,475,936 M&M's to donate for Halloween. If they have four states to donate to will each state receive the same amount of M&M's without any left over?



Divisible by 2: Rule:						
Which of the fo	ollowing are divi	sible by 2? Cir	cle all that app	ly		
23,468	18,340	3,455	513	3,008	18	
Try These: Circ	cle all of the num	bers that are	divisible by 2.			
25 78	957	988	54,876	3,895	467	
	24,682,446,0	84,240,242,68	8,000,042,008	,224,226,688	3,243	

Divisible by Rule:	5:						
Which of th	Which of the following are divisible by 5? Circle all that apply						
23,465	18,34	0 3,4	152 5	513,059	55,552		
Try These:	Try These: Circle all of the numbers that are divisible by 5.						
255	122	507 4,00	00 505,05	51 3,895	460		
	555,000,5	55,000,555,000	,555,000,555,000	,555,000,555,000,5	557		

Div Rul	isible by 10: e:						
Wł	ich of the foll	owing are divisi	ble by 10? Circle a	all that apply			
10,	104	34,905	3,450	500,008	18,0	04,950	
Try	These: Circle	all of the numb	ers that are divisi	ble by 10.			
34() 7,894	95,578	988,045	467,000	57,790	123,940	
		24,682,446,08	4,240,242,688,000	0,042,008,224,220	5,688,240		

Divisible Rule:	by 3:						
Which of	the follow	ng are divisible	by 3? Circle all	that apply			
111	12,9	76	67,431	200,001	18,001		
Try These	Try These: Circle all of the numbers that are divisible by 3.						
278	781	222,111	200,156	54,876	30,002	467,344	
Divisible by 3:Rule:Solution: Solution:Which of the following are divisible by 3? Circle all that apply11112,976 $67,431$ $200,001$ $18,001$ Try These: Circle all of the numbers that are divisible by 3.278781 $222,111$ $200,156$ $54,876$ $30,002$ $467,344$ 100,000,000,000,000,000,000,000,000,000							

Divisible by Rule:	6:				
Which of the	e following are divis	ible by 6? Circle	all that apply		
234,965	341,028	35,992	562,500		18,006,003
Try These:(Circle all of the num	bers that are div	isible by 6.		
56,006	111,126	3,000	223,005	54,876	3,895
	24,682,446,0	84,240,242,688,0	000,042,008,224,2	226,688,2	43

Divisible by 9: Rule:				ġ
Which of the follo	owing are divisible	by 9? Circle all tha	t apply	
105,003	919,191	569,250	999,882	18,783,392
Try These: Circle	all of the numbers	that are divisible b	y 9.	
56,009,880	3,009,457,980	67,000	234,894	12,012
	111,111,111,1	11,111,111,111,11	1,111,111,111,111	

Divisible by 4	:							
Rule:								
Which of the following are divisible by 4? Circle all that apply								
444,444,423 556,712 456 67,000,001 78,050,436								
Try These: Ci	rcle all of the numbe	ers that are divisi	ole by 4.					
67,044	24,247	8,90,006	23,	928	111,111			
	444	1,444,444,444,44	4,444,444,413	}				
Divisible by 8	:			6	PIDEY			
Rule:								
Which of the	following are divisib	le by 8? Circle al	l that apply					
456,056 345,006 234,960 124,245,128 25,001								
Try These: Circle all of the numbers that are divisible by 8.								
200,400	34,088	18,045,099	450,987	567,256	26,480			
	456,234	1,098,394,933,00	4,955,232,999	9,240				

Now Try These:

The owner of a sporting goods store has \$8,145 to give to his 9 employees as bonuses. Will each employee receive the same amount if he uses all of the money?



An M&M factory has 23,475,936 M&M's to donate for Halloween. If they have four states to donate to will each state receive the same amount of M&M's without any left over?



I have 24,902 word problems to put in 8 units. Will each unit get the same number of word problems if I use all of the problems?



I am writing a 256,938,093 word book. I have 6 years to complete it and want to write the same number of words per year. Is this possible?

