

Thinking about Kalamay

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THE MATHEMATICS MAGAZINE FOR GRADE SCHOOL

“Help me, Jun!” begged Ben.
“Sure! What is it about?”
asked Jun.

“About divisibility. I didn’t understand the lesson in math because during class I was imagining the *Kalamay* Festival in San Enrique, Iloilo. I can’t wait to taste those sweet sugar cane products,” said Ben.

“Kalamay?” wondered Jun.

“The kalamay is the centerpiece of the festivity this December. The highlight of the event is the colorful pageantry of dances showing the lifestyle of the people of the town,” explained Ben.

“I’ll help you, but try to concentrate in class next time,” said Jun. “First, a number is divisible by two if the number is even. Since 86 is an even number, it can be divided by two,”

“I see. So 496 and 328 are both divisible by two,” said Ben.

“Numbers divisible by five has a last digit of 5 or 0, like 425 and 320,” continued Jun.



“That’s easy. I can give all numbers divisible by five when I do skip counting by 5s,” Ben said with confidence.

“Good. Numbers divisible by ten are numbers ending with 0, like 370 and 950,” said Jun.

“Aha! Now that’s skip counting by ten!” exclaimed Ben.

“Numbers are divisible by four when the last two digits of the number ends in 0 or is divisible by 4, like 300 and 732,” explained Jun.

“Since the last two digits of 732 is 32, and 32 is divisible by four, then 732 is divisible by four,” followed up Ben.

“To test divisibility by three, you need to add the digits. If the sum of the digits is divisible by 3, then the number can be divided by three. For example, in 873, the sum of the digits 8, 7, and 3 is 18. Since 18 is divisible by 3, then 873 is divisible by 3,” said Jun. “How about 782?”

“782 is not divisible by three, because $7 + 8 + 2 = 17$. 17 is not a multiple of three,” said Ben as he finished solving.

“Divisibility by nine follows the same rule. You have to add the digits of the number. If the sum is divisible by 9, then the number is divisible by nine,” explained Jun.

“So, 873 is also divisible by nine because the sum, 18, is divisible by 9,” said Ben.

“Right!” exclaimed Jun.

“Lastly, a number is divisible by 6 if the number is even and divisible by 3,” said Jun.

“Thanks for the help. I’ll bring you some delicacies when I get back,” said Ben.

“Really? Great!” exclaimed Jun.



Try This!

- I. Put a check on the appropriate column if the number is divisible by 2, 3, 4, 5, 6, 8, 9, and/or 10.

	2	3	4	5	6	8	9	10
18								
27								
75								
80								
96								
124								
302								
700								
999								
2 350								
4 026								
8 231								
420 453								
647 108								
847 424								

- II. Write the digit in the blank to complete each sentence.

- 1) The largest two-digit number divisible by 3 and 4 is 9__.
- 2) The least three-digit number divisible by 6 and 9 is 10__.
- 3) The least three-digit number divisible by 5 and 6 is 12__.
- 4) The largest three-digit number divisible by 4 and 8 is 99__.
- 5) The least four-digit number divisible by 2 and 8 is 1 00__.

III. Answer the following questions. Write your answer in the blank before each number.

- _____ 1) What is the least number divisible by 3, 4, and 6?
- _____ 2) What is the greatest two-digit number divisible by 5, 9, and 6?
- _____ 3) What is the least three-digit number divisible by 4, 8, and 5?
- _____ 4) What is the least four-digit number divisible by 2, 3, and 10?
- _____ 5) What is the greatest four-digit number divisible by 3, 6, and 9?

- I) 6
 II) 8
 III) 12
 2) 90
 3) 120
 4) 1 020
 5) 9990

10	9	8	6	5	4	3	2	18
	✓		✓		✓	✓	✓	27
			✓		✓	✓	✓	75
✓		✓		✓	✓	✓	✓	80
		✓	✓		✓	✓	✓	96
					✓	✓	✓	124
						✓	✓	302
✓	✓			✓	✓	✓	✓	700
						✓	✓	999
✓				✓		✓	✓	2 350
			✓		✓	✓	✓	4 026
						✓	✓	8 231
	✓							420 453
					✓	✓	✓	647 108
					✓	✓	✓	847 424

I
ANSWER KEY