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## Chi Alpha Mu October Update

Chapter Grants: Chapter Grants are available for up to $\$ 250$ per chapter if your chapter has not received a grant before.

Free TI-84 Plus Calculators: The National Office has only a few free TI-84 Plus calculators to give away.

Key Curriculum Press Tinkerplots Program ("Digging into Data with Tinkerplots"): One chapter of Chi Alpha Mu will receive a single user copy of the program and copies of the two workbooks

Rocket City Math League http://mualphatheta.org/Contests/RocketCity.aspx
Interschool Test is Oct 20-31, 2014. Go to the website for future dates.
American Mathematics Competition: We still have a few free copies of an AMC CD left to give away. These include the American Junior High Mathematics Exams from 1985 1999 and the AMC8 Exams from 2000-2007.

Raytheon's Math Moves U: The prompt is now available. Deadline for submissions is February 7, 2015 Go to: http://www.mathmovesu.com/ go to 'aboutmathmovesu, click on 'scholarships' for details. \$1,000 scholarship opportunity for students and matching \$1,000 grant opportunity for school math program.

## Secret Message and Divisibility Rules

All even numbers are divisible by 2 . That means if you divide them by 2 , there is no remainder. If a number can be divided by the number 3 , the sum of the number's digits must be divisible by 3 . Any number ending in 5 , can be divided by 5 with no remainder. If a number ends in 0 , then it is evenly divisible by 10 .

Use these rules on each of the nine numbers below. To the right of each number are letters. Circle the letters in the column that meet the divisibility rules for $2,3,5$, and 10. Put the letters out to the right in the order they were circled. Then put them in that order on the dashes at the bottom to spell out a secret message.

When you are all done, make your own divisibility secret message for a friend.

|  | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{5}$ | $\mathbf{1 0}$ |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 7 0}$ | H | B | A | V |  |
| $\mathbf{5 5}$ | C | A | E | S |  |
| 416 | F | W | I | N |  |
| 21 | A | U | H | S |  |
| 108 | N | W | R | O |  |
| 3175 | D | Z | I | G |  |
| 2062 | T | R | A | M |  |
| 9210 | H | M | A | T |  |
| $\mathbf{1 4}$ | H | O | P | S |  |


(Thanks to Steve and Janis Marcy for the idea from Icms.dadschools.net/math/Pizzazz Books/Pizzaz Book C.pdf)

