

# HINTS



# SET 14

- 1A. How many 2s are there? 4s? 6s?
- 1B. How many nickels must be grouped with each quarter so as to average 10¢ per coin?
- 1C. What is the least sum possible? the greatest?
- 1D. Divide 561 by each prime. What other factors are there?
- 1E. Suppose  $ABCD$  is 6 units by 4 units.
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- 2A. Convert each fraction to decimal form.
- 2B. Work backwards.
- 2C. Assume a convenient length for one side and then adjust as you find the other sides.
- 2D. What pattern appears when you find the first several terms?
- 2E. What is the square root of 1?  $1 + 3$ ?  $1 + 3 + 5$ ?
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- 3A. What units digit is likely for one of the factors of 420?
- 3B. "Fill" the holes one at a time.
- 3C. What denominators are possible if the denominator of their sum is 15?
- 3D. In each rotation, how many units are needed to reach the top right corner?
- 3E. Through how many degrees does each hand move between 8:00 and 8:24?
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- 4A. Sketch the line and place each student on it.
- 4B. What is the mean? mode? median?
- 4C. By what amount is  $+13$  greater than  $-1$ ?
- 4D. Find the area of the unshaded region of each circle separately.
- 4E. The base of the triangle could be either in the upper or lower set of points.
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- 5A. In an organized way, list the tens digit for each ones digit.
- 5B. Make a table comparing costs for different numbers of checks.
- 5C. In ratio problems, assigning a convenient number usually does not affect the answer.
- 5D. How many of the first 300 counting numbers must be replaced?
- 5E. Draw several paths to become familiar with the patterns.