

Show your reasoning. Use graph paper for models and additional work.

- Tower School

# ART OF PROBLEM SOLVING

Show your reasoning. Use graph paper for models and additional work.

- One light flashes every 75 seconds and another flashes every 100 seconds. If they flash together now, how many minutes will pass before they next flash together?
- One sequence begins 1, 7, 13, 19, . . . , and another begins 1, 9, 17, 25, . . . . Find the sum of the first three numbers that occur in both sequences.
- A positive whole number is 3 more than a multiple of 4 and 4 more than a multiple of 5. What is the least possible number?
- Three clubs meet every 12, 18, and 30 school days. They all meet today. After how many school days will all three next meet on the same day? How many times will each club have met during that interval, not counting today but counting the final day?