

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.

- List all common factors of 84 and 126, then identify their greatest common factor.
- Two whole numbers have greatest common factor 12. One number is 48, and the other is less than 50. Find every possible value of the other number.
- Explain why two consecutive positive whole numbers always have a greatest common factor of 1.
- Three ribbons are 84, 126, and 210 centimeters long. They are cut into equal-length pieces, with no ribbon left over. What is the greatest possible length of each piece, and how many pieces are made altogether?