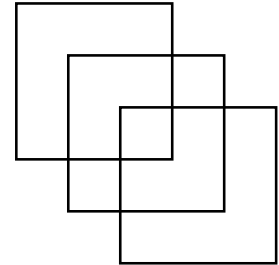


MathTime

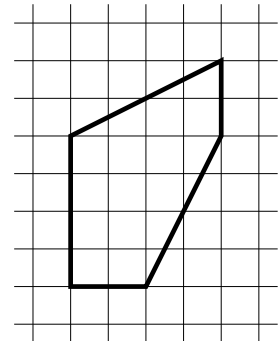
February 16, 2007

- Trace the figure without lifting the pencil or retracing any of the lines.
- A building has 100 square rooms forming a square 10 by 10 rooms. Each room has a door leading to each of the adjacent rooms and a window in each exterior wall. Find the total number of doors and windows in the building.



- Cut a circle into 4,5,6,7 parts by three straight lines.
- Find a shape of an apple pie such that it would be possible to cut it into 4 pieces by one straight line.

- Cut a square into two congruent pentagons; hexagons.
- Cut the pentagon in the diagram into two congruent pieces.
- There is a small circle on a rectangle. Cut them by a straight line so that the rectangle and the circle would be cut into two congruent pieces each.



- In his voyage to the Lilliput, Gulliver found that all the things are 12 times shorter than in his country. How many Lilliput's lunch boxes would fit into Gulliver's one?
- From a rectangle 22×15 inches cut out as many 3×5 rectangles as possible.
- Find the area of a triangle with sides 18, 17, 35.
- Make a square using four of the five figures.

