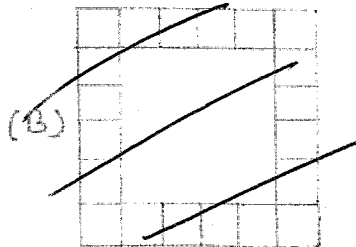
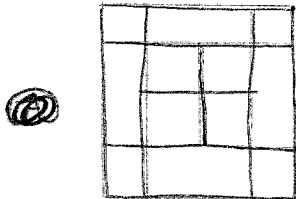


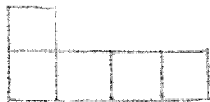
Homework

Name: _____

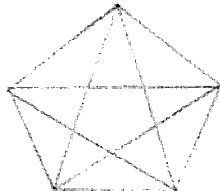
1. What is the total number of squares in ~~each~~ ^{the} figure?



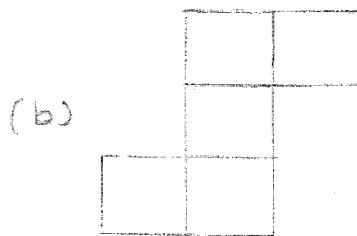
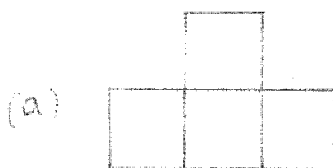
2. What is the total number of rectangles in the following figure?



3. What is the total number of triangles in the following figure?



4. Each of the small boxes in the following figure is a square. All the squares are the same size. If the perimeter of the figure in "a" is 30, what is the perimeter in figure "b"?



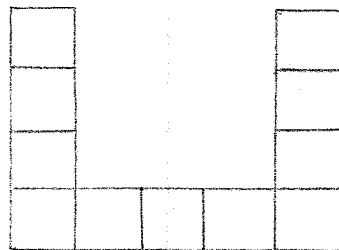
5. One wheel of a tractor turns 240 times in a one-mile trip. What is its approximate radius?

Creative Problem Solving

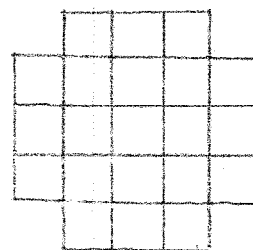
Homework ~~Week 9~~

Name _____

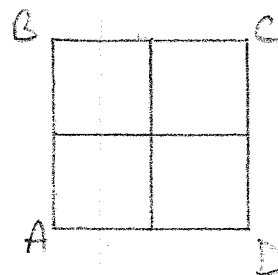
6. The U-shaped figure contains 11 squares of the same size. The area of the U-shaped figure is 176 square inches. How many inches are in the perimeter of the U-shaped figure?



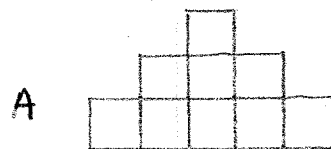
7. Each of the boxes in the figure at the right is a square. How many different squares can be traced using the lines in the figure?



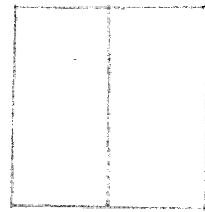
8. ABCD is a square whose sides are each 2 units long. The length of the shortest path from A to C following the lines of the diagram is 4 units. How many different shortest paths are there from A to C?



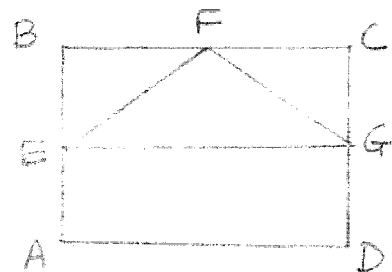
9. The small boxes in figure A and B at the right are congruent squares. The perimeter of Figure A is 48 inches. What is the perimeter of Figure B?



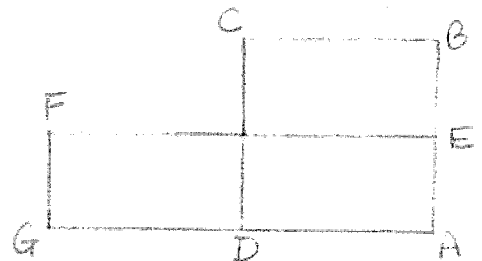
10. The square piece of paper is folded in half as shown and then cut into two rectangles along the fold. The perimeter of each of the two rectangles is 18 inches. What is the perimeter of the original square?



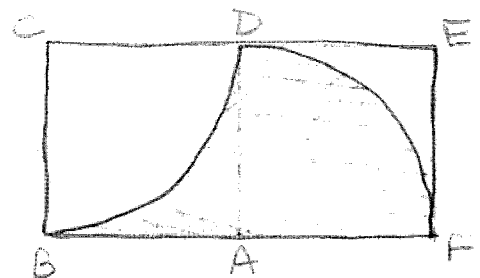
11. ABCD is a rectangle with area equal to 36 square units. Points E, F, and G are midpoints of the sides on which they are located. How many square units are there in the area of triangle EFG?



12. Square ABCD and rectangle AEFG each have an area of 36 square meters. E is the midpoint of AB. What is the perimeter of rectangle AEFG?



13. ABCD and AFED are squares with a common side AD of length 10 cm. Arc BD and arc DF are quarter-circles. How many square cm. are in the area of the shaded region?



Answers

1. 18
2. 12
3. 35
4. 36
5. 3.5 ft
6. 96
7. 38
8. 6
9. 60
10. 24
11. 9
12. 30
13. 100 sq. cm.