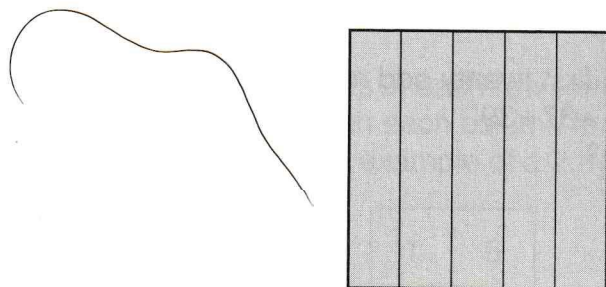
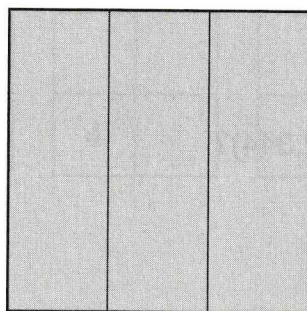


PRACTICE | Answer each problem below.

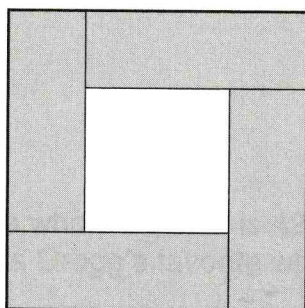
113. Five congruent rectangles are attached as shown to make a square. **113.** _____
 ★ Each congruent rectangle has an area of 20 squares. What is the perimeter of one of the rectangles?



114. Three congruent rectangles with perimeter 16 are attached as shown to make a square. **114.** _____
 ★ to make a square. What is the area of the square?



115. Four congruent rectangles, each with a perimeter of 12, are arranged as shown. **115.** _____
 ★ What is the perimeter of the big square they make?



PRACTICE

Find a clever way to compute each of the following:

116. Winnie adds the first twenty odd numbers: $1+3+5+7+\cdots+37+39$.
What is the sum? **116.** _____

117. What is the sum of the first 101 odd numbers?
★ **117.** _____

118. What is $(2,345 \times 2,345) - (2,344 \times 2,344)$?
★ **118.** _____

119. Multiply $7 \times 51 \times 7$.
★ **119.** _____

120. Multiply $6 \times 7 \times 8 \times 9$.
★
★ **120.** _____

PRACTICE

Answer the word problems below.

121. In a square of squares, the digits in each row form a 2-digit perfect square from left to right, and the digits in each column form a 2-digit perfect square from top to bottom. Here is one example of a 2 by 2 square of squares:

1	6
6	4

Complete the three other 2 by 2 squares of squares:

3					
		4			6

122. The square of what number is equal to $4 \times 4 \times 4$?

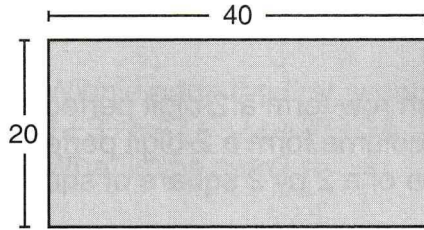
122. _____

123. The square of Grogg's favorite whole number is 42 more than his favorite whole number. What is Grogg's favorite whole number?

123. _____

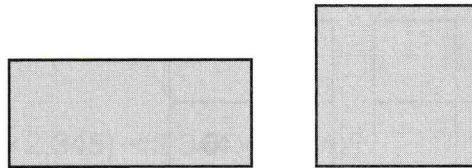
124. A rectangular garden has short side length 20 and long side length 40. A square garden has the same perimeter. What is the area of the square garden?

124. _____



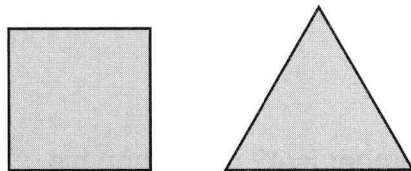
125. The rectangle and the square below have the same area. The side length of the square is 6. One side of the rectangle has length 9. What is the perimeter of the rectangle?

125. _____



126. The square and the equilateral triangle below have the same perimeter. The side length of the triangle is 8. What is the area of the square?

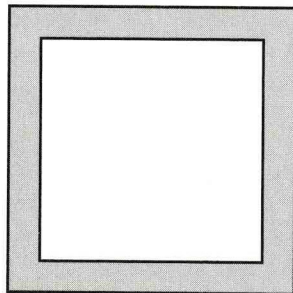
126. _____



127. Each of Lizzie, Winnie, and Alex has a perfect square number of jellybeans. Together, they have 96 jellybeans. Winnie has the most jellybeans. How many jellybeans does she have? **127.** _____

128. Alex and Winnie each draw a square. The perimeter of Alex's square is 24. The area of Alex's square is four times the area of Winnie's square. What is the perimeter of Winnie's square? **128.** _____

129. Lizzie has a square sheet of gray paper. Grogg cuts a 7 by 7 square from Lizzie's paper. The area of the remaining gray paper, shown below, is 32 squares. What is the side length of Lizzie's original square paper? **129.** _____



130. Alex adds five different even two-digit numbers. The sum is a perfect square. What is the smallest possible sum of Alex's five numbers?

130. _____

131. Ms. Levans has three grandchildren. The age of each grandchild, in years, is a different perfect square less than 40. If Ms. Levans adds the ages of all three grandchildren, the sum is also a perfect square. How many years old is Ms. Levans's youngest grandchild?

131. _____

