

## 2010 TAPS Round 2

6. Xavier plans to use 60 inches of wire to build two squares, one with side lengths that are twice as long as the other square's side lengths. What is the total area of the two squares?
7. Jay is taking a test that has 30 questions. He earns 9 points for every correct answer and loses 5 points for every wrong answer. If Jay's score is 18, how many questions did he answer correctly on the test?
8. What is the average of all numbers from 1 to 100 that contain at least one 5 as a digit? Round your answer to the nearest tenth.
9. Tyco owns a used car lot. Yesterday, he sold two cars for \$7500 each. He made a 25 percent profit on the first car, but the second sale resulted in a 25 percent loss. If Tyco made a profit, type the answer as a positive number, if he lost money, type the answer as a negative number or if he broke even, type in 0.
10. How many square tiles would be in the 10th figure?



Figure 1

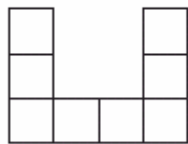


Figure 2

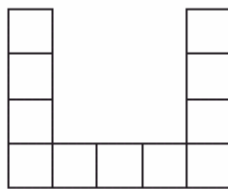


Figure 3

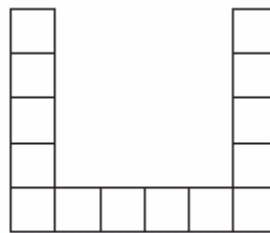


Figure 4