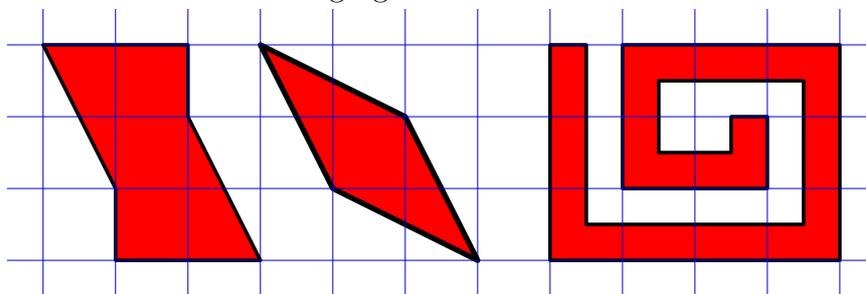


Practice Problems for Test 1

1. I have seven coins whose total value is \$0.57. What coins do I have? And, how many of each coin do I have?
2. Frankie and Johnny began reading a novel on the same day. Frankie reads nine pages a day and Johnny reads eleven pages a day. If Frankie is now on page 60, what page is Johnny on?
3. A man left an estate of \$64,000 to three children. The eldest child received three times as much as the youngest. The middle child received \$14,000 more than the youngest. How much did each child receive?
4. Bill and Sue both work at night. Bill has every sixth night off and Sue has every eighth night off. If they are both off tonight, how many nights will it be before they are both off again?
5. How many positive factors does 4^{10} have? What are they?
6. A store carries one kind of stuffed cat. On Monday the store sold a certain number of the stuffed cats for a total of \$95 and on Tuesday, without changing the price, the store sold a certain number of the stuffed cats for a total of \$115. How many toy cats were sold each day if the price of each cat is a whole number and greater than \$1?
7. Find the areas of the following figures:



8. Recall that the area of an equilateral triangle with side 1 is approximately 0.433 square units. What is the area of an equilateral triangle with side 10?
9. What is the area of a trapezoid with sides 2, 2, 2, 4?
10. Each side of a rectangle is a whole number of units and its area is 37 square units. What is its perimeter?
11. Compute $1 + 3 + 5 + \dots + 999$.
12. Calculate the following: $\frac{2}{3} + 1\frac{5}{6}$; $\frac{2}{3} \times 1\frac{5}{6}$; $\frac{2}{3} \div 1\frac{5}{6}$.
13. Write problems that require to perform the above operations.
14. Which ideas or suggestions discussed in the article on using manipulatives do you find interesting or useful?