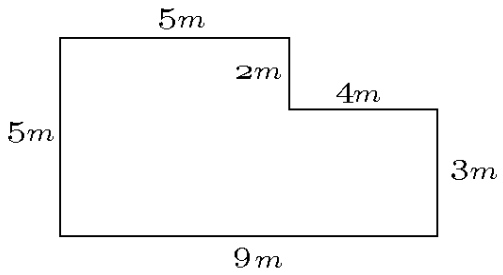
1. a) Graph the points $A(-2,3)$, $B(3,3)$, and $C(3,7)$ and connect the points.
   b) Compute the area of the right triangle ABC.
   c) Can we compute the perimeter of triangle ABC?

2. Consider the object shown on the picture below.



   a) Compute the perimeter of the object. Include units in your computation and answer.
   b) Compute the area of the object. Include units in your computation and answer.

3. What is the greatest prime number that is less than 100?

4. Perform the division $2012 \div 12$. Express your answer by giving the quotient and the remainder. For example, $38 \div 5 = 7$ R 3.

5. a) Compute $\frac{3}{7}$ of \$420. b) Compute $\frac{4}{100}$ of \$3500.

6. Saturday was a good day for the bookstore. The store opened with 1200 books in its inventory. Until noon, the store sold $\frac{1}{6}$ of its books. In the afternoon, the store sold $\frac{2}{5}$ of what's left. How many books were in the store at closing time?

7. Simplify each of the following. Show all steps.

   a) $-2^2 - 3\left(5 - (-3)^2\right) - 2\,|3-8|$
   b) $3^2 \cdot (-2) + |2 - 3\,|-5||$
   c) $-5^2 - 24 \div 2\,(-3)$
   d) $\dfrac{3 - 2^2\,(-5)}{(-1)^3 + 6 \div 6}$
   e) $\sqrt{9 + \dfrac{-20}{4}}$

8. Consider the equation $-x^2 + x^3 - x = -2x^2 + 5x$. In each case, determine whether the number given is a solution of the equation or not.

   a) $x = 3$ b) $x = -3$ c) $x = 2$ d) $x = -2$

9. Consider the inequality $\dfrac{2x-1}{3} < \dfrac{3x+1}{2} - 5$. In each case, determine whether the number given is a solution of the equation or not.

   a) $x = -7$ b) $x = 5$ c) $x = 17$

10. Solve each of the following equations. Make sure to check your solutions.

    a) $x - 17 = -20$ b) $\dfrac{m}{5} = -8$ c) $2x = 0$