

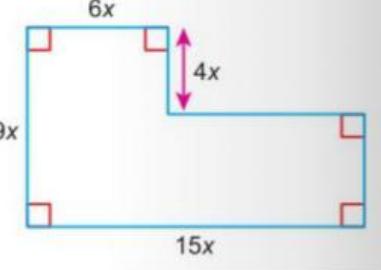
Name:

Date:



Applying Algebraic Expression

Discuss with your pair to solve this word problem. Then, each of you write the process on your notebook.

| | |
|--|---------|
| <p>Write an algebraic expression, in simplest form for each of the following.</p> <p>a. Perimeter of a square with a side length of $7r+2$</p> <p>b. A cube has 6 surfaces. What is the area of one surface of a cube with a total surface area of $54x^2$</p> | Answer: |
| <p>The area of circle A is given by πx^2. The area of circle B is given by $9\pi x^2$. Find the difference in the area of circles A and B.</p> | Answer: |
|  <p>This diagram shows a shape. Write an algebraic expression in simplest form, to represent the area of the shape.</p> | Answer: |

Name:

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Applying Algebraic Expression

Discuss with your pair to solve this word problem. Then, each of you write the process on your notebook.

The perimeter of an equilateral triangle is represented by $27x^2 + 21x + 18$

- What is the length, in the simplest form, of one side of the triangle?
- If $x=2$ cm, find the length of one side of the triangle?

Answer:

The cost in dollars, to produce x magazines is $2x+2000$. The cost, in dollars, to produce y books is $4y+2400$.

- Write an algebraic expression, in simplest form, to represent the total cost of the magazines and books.
- If the company want to produce 2000 magazines and 1000 books, what is the total cost, in dollars, of the magazines and books.

Answer: