

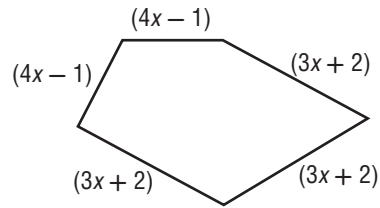
Lesson 6 Problem-Solving Practice

Add Linear Expressions

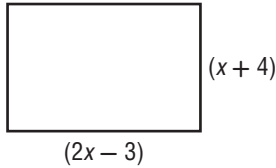
1. SWIMMING The table gives the number of laps Pragitha swam each week. Write an expression for the total number of laps she swam all four weeks.

Week	1	2	3	4
Laps	$x + 2$	$3x$	$2x + 1$	$4x - 6$

2. GEOMETRY Write an expression for the perimeter of this pentagon. If the perimeter is 157 units, find x .



3. BEDROOM Write an expression for the perimeter of the bedroom shown below.



4. HOCKEY The table shows the number of goals scored during each game. Write an expression for the total number of goals scored in these 3 games.

Game	1	2	3
Goals	$2x$	$x + 2$	$3x - 1$

5. FLIGHT An airline charges $\$(22x + 20)$ for a ticket, $\$(x + 1)$ to check a bag, $\$2x$ for food, and $\$(15x - 16)$ to upgrade to first class. Write an expression to represent the total cost of flying first class, checking a bag, and buying food on the plane.

6. FOOD Loy paid $\$(4x + 7)$ for a beef roast and $\$(2x - 5)$ for five pounds of potatoes. Write an expression for the total amount he spent on food.

Lesson 7 Problem-Solving Practice

Subtract Linear Expressions

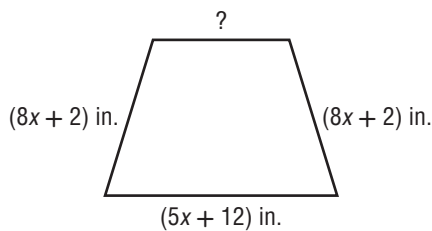
- 1. GASOLINE** The table gives the cost of a gallon of gasoline at two stations. How much more does gasoline cost at Gas For Less than at Cut-Rate?

Cut-Rate	$-2x + 3.5$
Gas for Less	$x - 1.2$

- 2. GEOMETRY** What is the difference in the areas of the polygons shown?



- 3. PLACEMATS** Find the missing side of the placemat shown if the perimeter is $28x + 11$ inches.



- 4. SHOES** Uthara has $6x - 7$ pairs of shoes while China has $2x + 3$ pairs of shoes. How many more pairs of shoes does Uthara have than China?

- 5. INSECTS** A grasshopper has a length of $(5x - 2)$ inches. A spider has a length of $(2x - 1)$ inches. How much longer is the grasshopper?

- 6. PANTHERS** Two Florida panthers were weighed. One weighs $6x + 21$ pounds and the two together weigh $14x + 11$ pounds. How much does the other panther weigh alone?