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## 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 | $x+2$ | $3 x$ | $2 x+1$ | $4 x-6$ |

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

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

5. 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 | $2 x$ | $x+2$ | $3 x-1$ |

6. FOOD Loy paid $\$(4 x+7)$ for a beef roast and $\$(2 x-5)$ 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 | $-2 x+3.5$ |
| :--- | :--- |
| Gas for Less | $x-1.2$ |

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

3. SHOES Uthara has $6 x-7$ pairs of shoes while China has $2 x+3$ pairs of shoes. How many more pairs of shoes does Uthara have than China?
4. INSECTS A grasshopper has a length of $(5 x-2)$ inches. A spider has a length of $(2 x-1)$ inches. How much longer is the grasshopper?
5. Panthers Two Florida panthers were weighed. One weighs $6 x+21$ pounds and the two together weigh $14 x+11$ pounds. How much does the other panther weigh alone?
