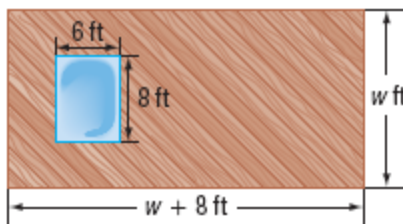


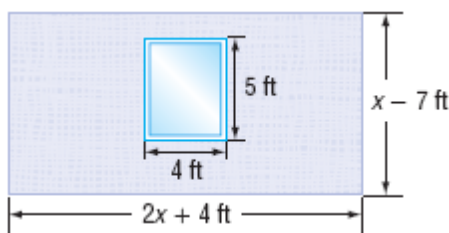
Name: \_\_\_\_\_

## Factoring a Trinomial

- 1) Kevin is going to put a hot tub that measures 8 feet by 6 feet within his new deck so that no decking will be installed below it. How many square feet of decking will Kevin need? Express the answer in factored form.



- 2) Cheyenne is painting a mural on one wall of her living room. The wall that she will paint has a window as shown. Write an expression for the area that will be painted in factored form.



- 3) Factor the following polynomials.

1)  $2x^2 - 5x - 3$

2)  $3x^2 + 16x + 15$

3)  $8x^2 - 2x - 3$

4)  $4x^2 - 16x + 15$

5)  $9x^2 + 9x - 4$

6)  $4x^2 - 3x - 10$

7)  $5x^2 + 17x + 6$

8)  $9x^2 + 21x + 10$

9)  $12x^2 - 17x + 6$

10)  $8x^2 + 26x - 7$

11)  $-10x^2 + 10x + 420$

12)  $-4x^2 + 40x - 100$