



NTID

Mrs. Lafferty

8th Grade

Week: 5

Day 21

**Lesson 6 Skills Practice****Add Linear Expressions****Add. Use models if needed.**

1.  $(5x + 7) + (x + 2)$

2.  $(-6x + 3) + (x - 7)$

3.  $(-x + 12) + (-4x + 2)$

4.  $(-5x + 3) + (-7x - 1)$

5.  $(-x + 3) + (4x - 10)$

6.  $(5x + 4) + (-8x - 2)$

7.  $(-7x + 1) + (4x - 5)$

8.  $(6x - 2) + (-x + 5)$

9.  $(-9x + 1) + (-7x + 8)$

10.  $(-3x - 9) + (4x + 8)$

11.  $(-9x - 12) + (x - 8)$

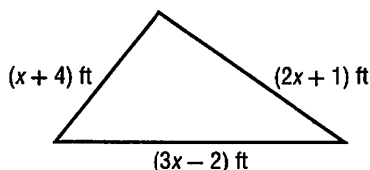
12.  $(14x + 7) + (-3x + 2)$

13.  $(2x - 1) + (-3x + 7)$

14.  $(-5x + 4) + (-9x - 2)$

15.  $(11x + 2) + (-8x - 2)$

16.  $(-9x - 10) + (-5x - 4)$

17. Find the sum of  $(10x + 3)$  and  $(-4x - 2)$ .18. Find the sum of  $(x + 3)$  and  $(-x - 4)$ .19. **GEOMETRY** Write and simplify an expression to represent the perimeter of the triangle shown. Then find the value of  $x$  if the perimeter is 45 feet.

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

**Lesson 6 Extra Practice**  
**Add Linear Expressions**

Day 22

**Add. Use models if needed.**

1.  $(3x + 5) + (4x - 1)$

2.  $(5x - 3) + (-2x + 1)$

3.  $(-7x + 4) + (-5x - 12)$

4.  $(4x - 10) + (-5x - 2)$

5.  $(7x - 9) + (-x - 6)$

6.  $(-3x + 9) + (14x - 2)$

7.  $(6x - 7) + (3x - 5)$

8.  $(-7x - 5) + (9x + 6)$

9.  $(4x + 2) + (3x - 1)$

10.  $(3x + 5) + (-2x - 2)$

11.  $3(2x + 4) + (4x - 2)$

12.  $4(-3x + 1) + (6x + 3)$

13.  $2(4x - 5) + (6x - 4)$

14.  $(-7x + 12) + (-4)(2x + 3)$

15.  $(2x + 6) + 8(3x - 7)$

16.  $4(-3x + 6) + (10x - 15)$

**Lesson 7 Skills Practice****Subtract Linear Expressions****Subtract. Use models if needed.**

1.  $(5x + 7) - (x + 2)$

2.  $(2x - 6) - (x - 7)$

3.  $(-x + 12) - (-4x + 2)$

4.  $(-5x + 3) - (-7x - 1)$

5.  $(-x + 3) - (4x - 10)$

6.  $(5x + 4) - (-8x - 2)$

7.  $(-7x + 1) - (4x - 5)$

8.  $(6x - 2) - (-x + 5)$

9.  $(-9x + 1) - (-7x + 8)$

10.  $(-3x - 9) - (4x + 8)$

11.  $(-9x - 12) - (x - 8)$

12.  $(14x + 7) - (-3x + 2)$

13.  $(5x - 1) - (-3x + 7)$

14.  $(-5x + 4) - (-9x - 2)$

15.  $(11x + 2) - (-8x - 2)$

16.  $(-9x - 10) - (-5x - 4)$

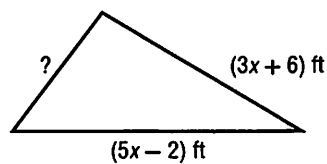
17.  $(x - 2) - (x - 6)$

18.  $(-6x + 1) - (-3x + 1)$

19.  $(2x + 4) - (5x - 2)$

20.  $(-12x - 6) - (-4x + 3)$

21. **GEOMETRY** The perimeter of the triangle shown is  $(10x + 1)$  feet. Find the length of the missing side.



NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

**Lesson 7 Extra Practice**  
***Subtract Linear Expressions***

Day 24

**Subtract. Use models if needed.**

1.  $(6x + 2) - (9x + 3)$

2.  $(-4x + 7) - (-7x - 8)$

3.  $(6x - 7) - (2x + 5)$

4.  $(6x - 8) - (4x - 7)$

5.  $(4x - 8) - (-3x + 10)$

6.  $(9x - 11) - (x - 5)$

7.  $(3x + 4) - (x + 1)$

8.  $(2x + 4) - (x + 2)$

9.  $(6x + 3) - (4x - 4)$

10.  $(x + 4) - (-2x + 6)$

11.  $(3x - 2) - (x - 2)$

12.  $(x - 9) - (2x - 1)$

**Lesson 8 Skills Practice**

Day 25

**Factor Linear Expressions**

Factor each expression. If the expression cannot be factored, write *cannot be factored*.

1.  $17x + 34$
2.  $10x + 25$
3.  $30x + 18$
4.  $45x - 18$
5.  $38x - 12$
6.  $28x + 15$
7.  $3x - 27$
8.  $6x + 24$
9.  $26x - 5$
10.  $48x + 56$
11.  $15x - 14$
12.  $20x - 100$
13.  $7x + 35$
14.  $7x + 17$
15.  $9x - 63$
16.  $39x + 13$
17.  $8x + 15$
18.  $18x - 12$
19.  $24x + 48$
20.  $45x - 81$

21. The area of a rectangular sandbox is  $(5x + 40)$  feet. Factor  $5x + 40$  to find possible dimensions of the sandbox.