



NTID

Mrs. Lafferty

8th Grade

Week: 6

Lesson 8 Homework Practice

Day 26

Factor Linear Expressions**Find the GCF of each pair of monomials.**

1. $20, 45x$

2. $15r, 25$

3. $8xy, 14x$

4. $30w, 70w$

5. $4st, 12s$

6. $11gh, 33g$

7. $16mn, 24m$

8. $25f, 60g$

9. $33c, 55cd$

10. $50j, 75jk$

11. $27cd, 72cde$

12. $48t, 60st$

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

13. $4x + 12$

14. $8r - 14$

15. $5x + 35$

16. $7 + 14x$

17. $32x - 15$

18. $24 + 32x$

19. $6x - 9$

20. $48 + 24x$

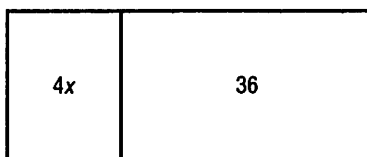
21. $72 - 18x$

22. $25x + 14$

23. $100x + 150$

24. $130x - 13$

25. **GEOMETRY** The rectangle shown below has a total area of $(4x + 36)$ square feet. Factor $4x + 36$.



26. **FUNDRAISING** The Art Club receives \$10 plus \$2 for every sculpture they sell for a fundraiser. The expression $2x + 10$ represents the amount the Art Club receives if they sell x sculptures. Factor $2x + 10$.

Lesson 8 Extra Practice
Factor Linear Expressions

Day 27

Find the GCF of each pair of monomials.

1. $28, 42x$

2. $21a, 45$

3. $16m, 56n$

4. $42x, 56y$

5. $20c, 28cd$

6. $5ab, 6b$

7. $7x, 14xy$

8. $14b, 56bc$

9. $21a, 63ab$

Factor each expression. If the expression cannot be factored, write *cannot be factored*. Use algebra tiles if needed.

10. $12x + 3$

11. $x - 2$

12. $4x - 3$

13. $3x + 9$

14. $6x - 12$

15. $2x - 7$

16. $7x + 14$

17. $12x - 10$

18. $3x + 36$

19. $4x + 20$

20. $15x + 7$

21. $10x + 18$

Lesson 1 Skills Practice**Solve One-Step Addition and Subtraction Equations****Solve each equation. Check your solution.**

1. $x + 2 = 8$

2. $y + 7 = 9$

3. $a + 5 = 12$

4. $16 = n + 6$

5. $q + 10 = 22$

6. $m + 9 = 17$

7. $b - 4 = 9$

8. $8 = c - 4$

9. $11 = t - 7$

10. $d - 10 = 8$

11. $x - 11 = 9$

12. $2 = z - 14$

13. $72 = 24 + w$

14. $86 + y = 99$

15. $6 + y = -8$

16. $-5 = m + 11$

17. $n + 3.5 = 6.7$

18. $x + 1.6 = 0.8$

19. $98 = t - 18$

20. $12 = g - 56$

21. $x - 18 = -2$

22. $p - 11 = -5$

23. $a - 1.5 = 4.2$

24. $7.4 = n - 2.6$

Lesson 1 Homework Practice

Day 29

Solve One-Step Addition and Subtraction Equations

Solve each equation. Check your solution.

1. $a + 4 = 11$

2. $6 = g + 8$

3. $x - 3 = -2$

4. $k + 8 = 3$

5. $j + 0 = 9$

6. $12 + y = 15$

7. $h - 4 = 0$

8. $m - 7 = 1$

9. $w + 5 = 4$

10. $b - 28 = 33$

11. $45 + f = 48$

12. $n + 7.1 = 8.6$

13. $-14 + t = 26$

14. $d - 3.03 = 2$

15. $10 = z + 15$

16. $c - 5.3 = -6.4$

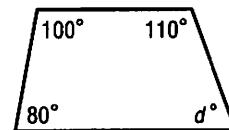
17. $\frac{5}{12} + p = \frac{7}{12}$

18. $-\frac{1}{3} = -\frac{5}{6} + u$

For Exercises 19 and 20, write an equation. Use a bar diagram if needed. Then solve the equation.

19. **CAFFEINE** A cup of brewed tea has 54 milligrams less caffeine than a cup of brewed coffee. If a cup of tea has 66 milligrams of caffeine, how much caffeine is in a cup of coffee?

20. **GEOMETRY** The sum of the measures of the angles of a trapezoid is 360° . Find the missing measure.



Lesson 1 Extra Practice

Day 30

Solve One-Step Addition and Subtraction Equations

Solve each equation. Check your solution.

1. $r - 3 = 14$

2. $t + 3 = 21$

3. $s + 10 = 23$

4. $7 + a = -10$

5. $14 + m = 24$

6. $-9 + n = 13$

7. $s - 2 = -6$

8. $6 + f = 71$

9. $x + 27 = 30$

10. $k - 9 = -3$

11. $j + 12 = 11$

12. $-42 + v = -42$

13. $s + 1.3 = 18$

14. $x + 7.4 = 23.5$

15. $p + 3.1 = 18$

16. $w - 3.7 = 4.63$

17. $m - 4.8 = 7.4$

18. $x - 1.3 = 12$

19. $y + 3.4 = 18$

20. $7.2 + g = 9.1$

21. $z - 12.1 = 14$

22. $v - 18 = 13\frac{7}{10}$

23. $w - \frac{1}{10} = \frac{8}{25}$

24. $r + 6\frac{7}{10} = 1\frac{1}{5}$