

3.1**Practice**

For use after Lesson 3.1

Identify the terms and like terms in the expression.

1. $3x + 4 - 7x - 6$

2. $-9 + 2.5y - 0.7y + 1 + 6.4y^2$

Simplify the expression.

3. $5a - 2a + 9$

4. $m - \frac{1}{6} - 4m + \frac{5}{6}$

5. $2.3w - 7 + 8.1 - 3w$

6. $7(d - 1) + 2$

7. $13g + 2(4k - g)$

8. $20(p + 2) + 16(-3 - p)$

9. Write an expression in simplest form that represents the cost for shampooing and cutting w women's hair and m men's hair.

	Women	Men
Cut	\$15	\$7
Shampoo	\$5	\$2

3.2**Practice**

For use after Lesson 3.2

Find the sum or difference.

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

2. $(2n - 4) - (4n - 3)$

3. $2(-3y - 1) + (2y + 7)$

4. $(1 - 3k) - 4(2 + 2.5k)$

5. $(6g - 9) + \frac{1}{3}(15 - 9g)$

6. $\frac{1}{2}(2r + 4) - \frac{1}{4}(16 - 8r)$

7. You earn $(4x + 12)$ points after completing x levels of a video game and then lose $(2x - 5)$ points. Write an expression that represents the total number of points you have now. *(In simplest form)*

3.3**Practice**

For use after Lesson 3.3

Solve the equation. Check your solution.

1. $y + 12 = -26$

2. $15 + c = -12$

3. $-16 = d + 21$

4. $n + 12.8 = -0.3$

5. $1\frac{1}{8} = g - 4\frac{2}{5}$

6. $-5.47 + k = -14.19$

Write the word sentence as an equation. Then solve.

7. 42 less than x is -50 .

8. 32 is the sum of a number z and 9.

9. A clothing company makes a profit of \$2.3 million. This is \$4.1 million more than last year. What was the profit last year?

10. A drop on a wooden roller coaster is $-98\frac{1}{2}$ feet. A drop on a steel roller coaster is $100\frac{1}{4}$ feet lower than the drop on the wooden roller coaster. What is the drop on the steel roller coaster?

3.4**Practice**

For use after Lesson 3.4

Solve the equation. Check your solution.

1. $\frac{d}{5} = -6$

2. $8x = -6$

3. $-15 = \frac{z}{-2}$

4. $3.2n = -0.8$

5. $-\frac{3}{10}h = 15$

6. $-1.1k = -1.21$

Write the word sentence as an equation. Then solve.

7. A number divided by -8 is 7 .8. The product of -12 and a number is 60 .9. You earn $\$0.85$ for every cup of hot chocolate you sell. How many cups do you need to sell to earn $\$55.25$?

3.5**Practice**

For use after Lesson 3.5

Solve the equation. Check your solution.

1. $3a - 5 = -14$

2. $10 = -2c + 22$

3. $18 = -5b - 17$

4. $-12 = -8z + 12$

5. $1.3n - 0.03 = -9$

6. $-\frac{5}{11}h + \frac{7}{9} = \frac{2}{9}$

7. The length of a rectangle is 3 meters less than twice its width.

a. Write an equation to find the length of the rectangle.

b. The length of the rectangle is 11 meters. What is the width of the rectangle?

