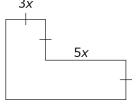
Chapter 8 Warm-Up

Section 8.1

1. Determine the area of the figure.



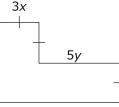
- **2.** Solve: $\frac{-15x^2}{10x}$
- **3.** Divide $\frac{2}{3}xy$ by 5x.
- **4.** Expand -3x(2x 5y + 7)
- **5.** What is $8x^2 24x$ divided by 4x?

Mental Math

- **6.** Evaluate: $-\frac{3}{4} + \frac{1}{6}$ **7.** Evaluate: $1\frac{3}{5} \div \left(-\frac{3}{7}\right)$
- **8.** Calculate: (-0.2) + (-3.4) ÷ (17)
- 9. If the length of a rectangle is5.2 cm long and the width is4.8 cm long, what is the area?
- 10. You commit to saving 15% every time you are paid. You make \$230 in one week. How much should you transfer to your savings account each week?

Section 8.2

- **1.** The area of a rectangle is 15*xy*. If the length is 5*y*, what is the width?
- **2.** Write a simplified expression for the area of this figure.



- **3.** Solve for *x*: $-\frac{5}{8}x = \frac{2}{3}$
- **4.** Solve for *m*: -3.77 =-1.3*m*

5. Solve for *y*:
$$\frac{5}{y} = 1.6$$

Mental Math

- **6.** What is $\frac{3}{5} \frac{1}{10}$?
- **7.** What is the sum of $-1\frac{3}{4}$ and $\frac{1}{2}$?
- 8. Evaluate: 2.8(-3.7 2.5)
- 9. What is the result if you subtract 4.95 from 18.95, then divide the difference by -0.5?
- 10. A small pizza costs \$8.50. Extra toppings cost \$0.50 each. How much does a small pizza cost if you want three extra toppings?

BLM 8-3

(continued)

Section 8.3

- **1.** Solve for *n*: $-2\frac{1}{5} = \frac{3}{n}$
- **2.** A roll of dimes is worth \$5. Write and solve an equation to determine the number of dimes in a roll.

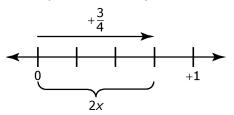
3. Solve for
$$x: \frac{x}{3} + \frac{5}{6} = \frac{2}{3}$$

4. Solve for x:
$$\frac{3}{4} = -2x + \frac{1}{5}$$

5. Solve for *x*: 2.5 - 0.2x = -3.9

Section 8.4

1. a) Write an equation that is represented by this model.



- **b)** Solve your equation.
- 2. Solve, expressing your answer to the nearest hundredth:

$$\frac{35.9}{n} = -76.4$$

- **3.** Solve: $-3x + \frac{3}{8} = -\frac{1}{4}$
- **4.** Solve: 1.5(x 3.2) = 5.7
- 5. Concert tickets are for sale online. There is a handling fee of \$3.50 added to the cost of every ticket. If you buy seven tickets and the total comes to \$385, what is the cost of one ticket before the handling fee is added?

Mental Math

- **6.** Evaluate: $\left(\frac{3}{10} \frac{2}{5}\right) \div 2$
- **7.** Find the product of 3 and 2x 5.
- **8.** Expand: $-\frac{2}{3}\left(\frac{x}{5}-4\right)$
- **9.** A number that has been increased by 5 is then multiplied by 3. The result is 24. What is the number?
- 10. Double the sum of 2 and another number is -18. What is the other number?

Mental Math

- **6.** Collect like terms: 3x 7 5x 9
- **7.** Evaluate: $-\frac{2}{5}p + \frac{2}{3}p$
- **8.** Write an expression that is the opposite of the one represented.

- **9.** Expand: $4\left(\frac{1}{7}x \frac{1}{5}\right)$
- **10.** Expand: -0.25(7*x* 4)