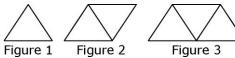
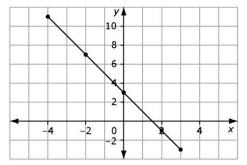
Chapter 7 Warm-Up

Section 7.1

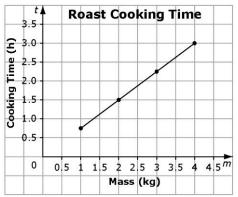
 Develop an equation relating the number of lines to the figure number. Use this equation to determine the number of lines in the hundredth figure.



2. Create a table of values of this linear relation. Use it to write the equation of the line.



3. The time it takes to cook a roast depends upon its mass. Using the graph, determine the approximate mass of a roast that takes 2.5 h to cook.



4. On New Year's Day, you are available to babysit. You will charge \$25 for being available for the evening and then \$8 for each hour of babysitting. Graph this relation for the first 5 h of babysitting. Then, write an equation.

BLM 7-3

5. Is this the correct graph for y = 10? Explain why or why not.

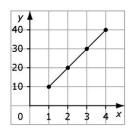
y ▲ 40 30 20 10				
30 -	_	-	\checkmark	
20	_	/	-	
10 -	-4			
0	1	2	3	4 ×

Mental Math

6. Evaluate: $\frac{3}{5}(15)$ 7. Evaluate: $-\frac{2}{3} \div \frac{1}{4}$ 8. Evaluate: $-1.5 \times (-4)$ 9. Write $3^2 \times 3^5$ as a single power. 10. Write $\frac{6 \times 6 \times 6 \times 6 \times 6}{6 \times 6}$ as a single power.

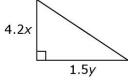
Section 7.2

- A car rental company charges \$20 for the day and 58¢ per kilometre used. Write an equation relating the number of kilometres to the rental charge, in dollars.
- **2.** Graph the relation C = 2n + 6.
- Draw a model to represent (-2x)(3x). Then, record the product.
- **4.** Find the product: $\left(\frac{3}{2}x\right) 14y$
- **5.** Determine the quotient: $\frac{-8xy}{2x}$

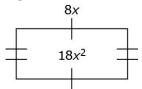


Section 7.3

1. Find the area of this figure.

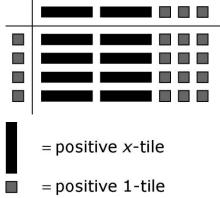


2. What is the missing width in this figure?

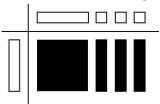


Mental Math

- **6.** Evaluate: $\frac{5}{3} \times \left(-\frac{2}{3}\right)$
- **7.** Find the product: (-1.2)(-7)
- 8. Expand: 3(2x 5)
- **9.** Multiply: -2(x + 5)
- **10.** What product does this model show?



3. What multiplication statement is represented by the algebra tiles? Shaded tiles are positive and white tiles are negative.



- **4.** Expand: -3x(2x + 5y 2)
- **5.** Find the product of 1.5x and -1.4x + 1.2.

Mental Math

- **6.** Divide 6*x* + 8 by 2.
- **7.** Divide 8*x* 12*y* by –2.
- **8.** What is 18xy divided by -3x?
- **9.** What is -24x divided by -4x?
- **10.** What is $-2.4x^2$ divided by 3x?