## Unit 7 Lesson 8 Cumulative Practice Problems

1. At the book sale, all books cost less than $5.
	1. What is the most expensive a book could be?
	2. Write an inequality to represent costs of books at the sale.
	3. Draw a number line to represent the inequality.
2. Kiran started his homework *before* 7:00 p.m. and finished his homework *after* 8:00 p.m. Let $h$ represent the number of hours Kiran worked on his homework.
* Decide if each statement it is definitely true, definitely not true, or possibly true. Explain your reasoning.
	1. $h>1$
	2. $h>2$
	3. $h<1$
	4. $h<2$
1. Consider a rectangular prism with length 4 and width and height $d$.
	1. Find an expression for the volume of the prism in terms of $d$.
	2. Compute the volume of the prism when $d=1$, when $d=2$, and when $d=\frac{1}{2}$.
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* (From Unit 6, Lesson 14.)
1. Match the statements written in English with the mathematical statements. All of these statements are true.
	1. The number -15 is further away from 0 than the number -12 on the number line.
	2. The number -12 is a distance of 12 units away from 0 on the number line.
	3. The distance between -12 and 0 on the number line is greater than -15.
	4. The numbers 12 and -12 are the same distance away from 0 on the number line.
	5. The number -15 is less than the number -12.
	6. The number 12 is greater than the number -12.
	7. $|-12|>-15$
	8. $-15<-12$
	9. $|-15|>|-12|$
	10. $|-12|=12$
	11. $12>-12$
	12. $|12|=|-12|$
* (From Unit 7, Lesson 7.)
1. Here are five sums. Use the distributive property to write each sum as a product with two factors.
	1. $2a+7a$
	2. $5z−10$
	3. $c−2cd$
	4. $r+r+r+r$
	5. $2x−\frac{1}{2}$
* (From Unit 6, Lesson 11.)



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