

**Math 7 Chapter 5 Practice Test**

1. The Garcia family's piñata order is 5 snickers and 4 jolly ranchers. The Thompson family's order is 6 snickers and 1 jolly rancher. How many snickers and how many jolly ranchers are needed to fill the orders?	
2. Simplify $5x + 8 + 2x - 7$ .	
3. What is the value of $9 + 3(5 - 3) - 6$ ?	
4. What is the value of $5a + 7b$ if $a = 4$ and $b = 6$ ?	
5. What is the value of $6x - 3y$ if $x = 4$ and $y = -1$ ?	
6. What are the <b>next three terms</b> in the sequence 3, 6, 9, 12, ...?	
7. What is the <b>next</b> term in the pattern 0.2, 0.4, 0.6, 0.8, ...?	
8. Which expression is equivalent to $4(x + 10)$ ? Hint: write $(x + 10)$ four times:  (            ) + (            ) + (            ) + (            )  A. $4x + 40$ B. $4x + 10$ C. $4x + 20$ D. $4x - 40$	

9. What is  $-2y + 11 + 2y - 8$  simplified?

10. The expression  $4x + 8$ , shown here with tiles, can be factored into which of the following expressions?

x	x	1	1	1	1
x	x	1	1	1	1

A.  $4(x + 2)$     B.  $2(x + 4)$     C.  $2(2x + 4)$     D.  $4(2x + 2)$

11. Add  $(10x + 2) + (9x - 4)$ .

12. Subtract  $(8x + 6) - (x - 3)$ .

13. Simplify the expression  $8(3x + 2) + 3(2x + 5)$ .

14. The **area** of a rectangular pool is  $(21x + 12)$  square units. Factor  $21x + 12$  to find possible dimensions of the pool. Draw a picture to support your answer.

15. Factor each of the following:

a.  $6x - 15$

b.  $7x + 20$

c.  $8 + 28x$