

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 next three terms in the sequence 3, 6, 9, 12, ...?	
7. What is the next 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. $4(x + 8)$ 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. $8 + 28x$

a.

b.

c.