7th Grade Chapter 3 - 4.2Test Review

Instructions: Show all your work clearly. Work in your composition notebook. Good luck!

1. Find the value of $p^2 + 3p - 5$ when $p = 4$.

2. Find the value of $\frac{a-2}{a^2-2}$ when $a = 4$.

3. The weight of a strawberry is $\frac{1}{9}$ that of an apple. If the apple weighs a ounces and the strawberry weights s ounces, write a formula relating a and s.

4. Find the value of $3x + 5$ when $x = 2$.

5. Find the number of days in:

   (a) 4 weeks
   (b) 11 weeks
   (c) n weeks

6. The cost of a movie ticket is c dollars. The cost of a popcorn is p dollars. The cost of a drink is d dollars. Write a formula for the total cost of a movie night, including the cost of the movie ticket, popcorn, and drink.

7. Simplify the following:

   (a) $7x - y + 3y - 6x$
   (b) $\frac{2}{3}x + \frac{1}{6}y - \frac{1}{2}x + \frac{1}{3}y$
   (c) $4x + 3 - 5x + 5$

8. Expand the following:

   (a) $3(a + 2)$
   (b) $a(3a + 5)$
   (c) $(x + 5)3$
   (d) $-2(a - 5)$