7th Grade Chapter 3 - 4.2 Test

November 6, 2025

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

1. Find the number of days in:

   (a) 5 weeks
   (b) 12 weeks
   (c) n weeks

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

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

4. Find the value of $\frac{x+2}{x^2-2}$ when $x = 3$.

5. 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.

6. Simplify the following:

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

7. Expand the following:

   (a) $2(x + 3)$
   (b) $x(3x + 5)$