8th Grade Chapter 3 Test Review

November 4, 2025

- 1. Expand and simplify the following expressions:
 - (a) (a+4)(a+5)
 - (b) (b-1)(b+6)
 - (c) $(x^2 + 2x + 2)(x 3)$
 - (d) 3x + (2x+2)(x-1)
 - (e) (x+2)(x+3) (x+1)(x+4)
- 2. Expand and simplify the following expressions:
 - (a) $(a+7)^2$
 - (b) $(3a-5)^2$
 - (c) (b-5)(b+5)
 - (d) (2a+3b)(2a-3b)
 - (e) $(x+2)^2 (x-2)^2$
- 3. Factor the following expressions:
 - (a) $a^2 + 8a + 16$
 - (b) $b^2 18b + 81$
 - (c) $x^2 16$
 - (d) $25a^2 49$
 - (e) $100t^2 140t + 49$