

**Chapter Review Games and Activities**

For use after Chapter 10

Solve the following problems, and find the answer at the right of the page. Place the letter of the answer on the line with the problem number to answer the riddle.

How does a pea farmer keep from getting sunburned at the beach?

- |   |                           |
|---|---------------------------|
| 1. $(-2x^3 + 2x^2 - x - 1) - (3x^3 + 5x^2 - x + 5) =$ | (S) $x^3 + 7x^2 - 2x + 4$ |
|   | (C) $x = -4$ and $2$      |
| 2. $(x + 3)(-3x - 6) =$                               | (S) $(3x - 2)(3x - 2)$    |
|   | (U) $3x^2 + 15x - 18$     |
| 3. $(4x - 8)(4x + 8) =$                               | (A) $x = 9$ and $-6$      |
|   | (N) $16x^2 - 64$          |
| 4. $(5x + 2)^2 =$                                     | (O) $25x^2 + 20x + 4$     |
|   | (S) $16x^2 + 64$          |
| 5. Solve for $x$ : $(x - 4)(x + 2) = 0$               | (A) $(3x + 5)(x - 8)$     |
|   | (R) $(3x - 2)(3x + 2)$    |
| 6. Solve for $x$ : $x^2 + 3x = 54$                    | (E) $x = -9$ and $6$      |
|   | (E) $(9x - 2)(x - 2)$     |
| 7. Factor: $3x^2 - 19x - 40$                          | (P) $x = -2$ and $4$      |
|   | (A) $-3x^2 - 15x - 18$    |
| 8. Factor: $9x^2 - 12x + 4$                           | (N) $(-3x - 20)(x + 2)$   |
|   | (M) $25x^2 + 4$           |
|   | (C) $-5x^3 - 3x^2 - 6$    |

He uses \_\_\_\_\_  
 1            2            3            4            5            6            7            8            !!