Name _____ Date _____

# 7.3 Puzzle Time

## What Does The Invisible Man Rub Into His Face Before He Retires?

Write the letter of each answer in the box containing the exercise number.

| 13 | 4 | 9 | 7 | 11 | 3 | 5 | 1 | 8 | | 12 | 6 | 10 | 2 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |

**Find the product.**

**1.** $(x + 7)^2$

**2.** $(x - 5)^2$

**3.** $(-6x + 3)^2$

**4.** $(-14 - x)^2$

**5.** $(x + 9)(x - 9)$

**6.** $(3x - 4)(3x + 4)$

**7.** $\left(\frac{2}{3} + x\right)\left(\frac{2}{3} - x\right)$

**8.** $(x + 10y)(x - 10y)$

**9.** $\left(x + \frac{4}{5}\right)\left(x - \frac{4}{5}\right)$

**10.** $(4x - 9y)(4x + 9y)$

**11.** $(-6x - 7y)(-6x + 7y)$

**12.** $(-8x + 3y)(-8x - 3y)$

**Answers**

**R.** $9x^2 - 16$

**N.** $x^2 - \frac{16}{25}$

**A.** $x^2 - 10x + 25$

**C.** $64x^2 - 9y^2$

**I.** $x^2 - 81$

**E.** $16x^2 - 81y^2$

**N.** $x^2 + 14x + 49$

**V.** $x^2 + 24x + 144$

**S.** $36x^2 - 49y^2$

**G.** $x^2 - 100y^2$

**H.** $36x^2 - 36x + 9$

**M.** $x^2 - 36$

**A.** $x^2 + 28x + 196$

**I.** $\frac{4}{9} - x^2$

**13.** The area of a billboard sign is represented by $(x + 12)^2$ feet. Find this product.

**14.** The length of a picture frame is $(x - 6)$ inches. The width of the picture frame is $(x + 6)$ inches. Find the area of the picture frame.