Name: _____

Date: _____ Score: _____

MATH MONKS

Special Products of Binomials Word Problems

Solve the following questions.

1. Find the area of the square whose side length is (7uv + 9w).

2. Each side of a square wall painting of side p is increased by 5 inches. Find its new area.

3. The length of a rectangular cornfield is 4 yards longer than its width x. If the farmer increases the length by 2 yards and width by 6 yards, find the new area.

4. A rectangular photo frame has length of (3x + 2y) cm and width of (3x - 2y) cm. Determine its area.

5. The area of a number plate is represented as $(5x + 12)^2$ square meters. Find this product.

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Special Products of Binomials Word Problems

Answers

1. Find the area of the square whose side length is (7uv + 9w).

$(49u^2v^2 + 126uvw + 81w^2)$ sq units

2. Each side of a square wall painting of side p is increased by 5 inches. Find its new area.

$(p^2 + 10p + 25)$ in^2

3. The length of a rectangular cornfield is 4 yards longer than its width x. If the farmer increases the length by 2 yards and width by 6 yards, find the new area.

$(x^2 + 12x + 36)$ yd^2

4. A rectangular photo frame has length of (3x + 2y) cm and width of (3x - 2y) cm. Determine its area.

$(9x^2 - 4y^2)$ cm^2

5. The area of a number plate is represented as $(5x + 12)^2$ square meters. Find this product.

$(25x^2 + 120x + 144)$ m^2