

Name : \_\_\_\_\_

## Multiplying Polynomials: Applications

Sheet 3

1) The length, height and width of a rectangular prism are  $2x^4 + 3x^2$ ,  $x^5$  and 10 respectively. Find the volume of the rectangular prism.

2) If the side of a cube measures  $t^2 - s^3t$ , determine the volume of the cube.

3) Find the area of  
 $8y - 4y^3$ .

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$4y^4 - 9 + 2y^6$  and

4) What will be the  
parallelogram a

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5) Find the area of the square whose side length is  $9a^3b^2c^2$ .

**Multiplying Polynomials: Applications**

- 1) The length, height and width of a rectangular prism are  $2x^4 + 3x^2$ ,  $x^5$  and 10 respectively. Find the volume of the rectangular prism.

$$20x^9 + 30x^7$$

- 2) If the side of a cube measures  $t^2 - s^3t$ , determine the volume of the cube.

$$-s^9t^3 + 3s^6t^4 - 3s^3t^7$$

- 3) Find the area of the parallelogram with base  $8y - 4y^3$ .

$$-4y^9 + 16y^5 - 16y^2$$

- 4) What will be the area of the parallelogram with base  $2h^7 - 2h^6 + 30n^7 + 6n^7 + 96n^7 - 72n^7$  and height  $4y^4 - 9 + 2y^6$  and  $2h^7 - 2h^6 + 30n^7 + 6n^7 + 96n^7 - 72n^7$ ?

$$-2h^7 - 2h^6 + 30n^7 + 6n^7 + 96n^7 - 72n^7$$

- 5) Find the area of the square whose side length is  $9a^3b^2c^2$ .

$$81a^6b^4c^4$$

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