

Name:

Key

Unit 6- Day 1
Properties of Exponents Homework



Simplify the Expression.

1) $7^3 \cdot 7^5$ 7^8

2) $x^2 \cdot x^8(x^5)$ x^{15}

3) $(m^3)^6$ m^{18}

4) $2r^4s^3 \cdot 7r^5s^3$ $14r^9s^6$

5) $(7^2)^8$ 7^{16}

6) $(3y^4)^3$ 3^3y^{12}
 $27y^{12}$

7) $(-4r^2)^2$ $(-4)^2 r^4$
 $4r^4$

8) $(6m^2n)^4$ $6^4m^8n^4$

9) $(5x^5)(3x^2y^5)(5x^4y)$
 $75x^{11}y^6$

10) $(3x^3)^2(2x^4y^2)^2$
 $3^2x^6 \cdot 2^2x^8y^4$
 $9x^6 \cdot 4x^8y^4$
 $36x^{14}y^4$