Name:

Date:

Multiplication Property of Exponents

Simplify.

1) $4\,x^4 \times 4\,x^4 \times 4\,x^4 =$

2) $2\,x^2 \times 2\,x^2 =$

3) $(6\,x)^2$

4) $y\,x^2 \times 2\,y^2\,x^2 \times 2\,x\,y =$

5) $x^4 \times 3\,x =$

6) $3\,x^3 \times x$

7) $2 \times 2^2 \times 2^2$

8) $(2\,x^2)^2$

9) $x^4 \times x^4 =$

10) $(x^2)^3$

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1) $4\,x^4 \times 4\,x^4 \times 4\,x^4 =$

$64\,x^{12}$

2) $2\,x^2 \times 2\,x^2 =$

$4\,x^4$

3) $(6\,x)^2$

$36\,x^2$

4) $y\,x^2 \times 2\,y^2\,x^2 \times 2\,x\,y =$

$4\,x^5\,y^4$

5) $x^4 \times 3\,x =$

$3\,x^5$

6) $3\,x^3 \times x$

$3\,x^4$

7) $2 \times 2^2 \times 2^2$

2^5

8) $(2\,x^2)^2$

$4\,x^4$

9) $x^4 \times x^4 =$

x^8

10) $(x^2)^3$

x^6