

Multiplication Property of Exponents



Simplify.



$$1) (6x^2)^2 =$$

$$2) 4^3 \times 4^7 =$$

$$3) 10^5 \times 10 =$$

$$4) (11x^5)^2 =$$

$$5) 7x^6 \times x^2 \times x =$$

$$6) 2x^2 \times 3yx^6 =$$

$$7) 6x^2 \times x^7 \times x =$$

$$8) 7y^2x^3 \times 3y^3x^3 =$$

$$9) 2x^7 \times x^5 \times x =$$

$$10) 5y^4x^2 \times 3y^3x^4 =$$

$$11) 7^4 \times 7 =$$

$$12) 3^7 \times 3 =$$

$$13) 10x^4 \times 3yx^7 =$$

$$14) 8x^5 \times 2yx^4 =$$

$$15) 4^3 \times 4 =$$

$$16) (3x^3)^2 =$$

$$17) 10y^5x^2 \times 3y^3x^3 =$$

$$18) 3^6 \times 3^2 =$$

$$19) 8^3 \times 8 =$$

$$20) 2y^5x^3 \times 3y^2x^4 =$$

$$21) 9x^4 \times 3yx^5 =$$

$$22) 11x^6 \times 4yx^2 =$$

$$23) 5^7 \times 5^5 =$$

$$24) 8^4 \times 8^6 =$$

$$25) 4y^7x^4 \times 3y^2x^4 =$$

$$26) 9y^2x^4 \times 4y^2x^4 =$$

$$27) 5x^4 \times x^6 \times x =$$

$$28) 3x^2 \times x^3 \times x =$$

$$29) 6^6 \times 6 =$$

$$30) 8y^7x^2 \times 3y^4x^3 =$$

Answers of Multiplication Property of Exponents



Simplify.

$$1) (6x^2)^2 = \mathbf{36x^4}$$

$$2) 4^3 \times 4^7 = \mathbf{4^{10}}$$

$$3) 10^5 \times 10 = \mathbf{10^6}$$

$$4) (11x^5)^2 = \mathbf{121x^{10}}$$

$$5) 7x^6 \times x^2 \times x = \mathbf{7x^9}$$

$$6) 2x^2 \times 3yx^6 = \mathbf{6yx^8}$$

$$7) 6x^2 \times x^7 \times x = \mathbf{6x^{10}}$$

$$8) 7y^2x^3 \times 3y^3x^3 = \mathbf{21y^5x^6}$$

$$9) 2x^7 \times x^5 \times x = \mathbf{2x^{13}}$$

$$10) 5y^4x^2 \times 3y^3x^4 = \mathbf{15y^7x^6}$$

$$11) 7^4 \times 7 = \mathbf{7^5}$$

$$12) 3^7 \times 3 = \mathbf{3^8}$$

$$13) 10x^4 \times 3yx^7 = \mathbf{30yx^{11}}$$

$$14) 8x^5 \times 2yx^4 = \mathbf{16yx^9}$$

$$15) 4^3 \times 4 = \mathbf{4^4}$$

$$16) (3x^3)^2 = \mathbf{9x^6}$$

$$17) 10y^5x^2 \times 3y^3x^3 = \mathbf{30y^8x^5}$$

$$18) 3^6 \times 3^2 = \mathbf{3^8}$$

$$19) 8^3 \times 8 = \mathbf{8^4}$$

$$20) 2y^5x^3 \times 3y^2x^4 = \mathbf{6y^7x^7}$$

$$21) 9x^4 \times 3yx^5 = \mathbf{27yx^9}$$

$$22) 11x^6 \times 4yx^2 = \mathbf{44yx^8}$$

$$23) 5^7 \times 5^5 = \mathbf{5^{12}}$$

$$24) 8^4 \times 8^6 = \mathbf{8^{10}}$$

$$25) 4y^7x^4 \times 3y^2x^4 = \mathbf{12y^9x^8}$$

$$26) 9y^2x^4 \times 4y^2x^4 = \mathbf{36y^4x^8}$$

$$27) 5x^4 \times x^6 \times x = \mathbf{5x^{11}}$$

$$28) 3x^2 \times x^3 \times x = \mathbf{3x^6}$$

$$29) 6^6 \times 6 = \mathbf{6^7}$$

$$30) 8y^7x^2 \times 3y^4x^3 = \mathbf{24y^{11}x^5}$$