

Converting Exponents to Expanded Form

Date _____ Period _____

Convert to expanded form.

1. $q^5 * m^4$

expanded form

$q * q * q * q * q * m * m * m * m$

2. f^4

$f * f * f * f$

3. 4^3

$4 * 4 * 4$

4. $(kv)^2$

$kv * kv$

5. $(wk)^3$

$wk * wk * wk$

6. 2^4

$2 * 2 * 2 * 2$

7. $(wt)^4$

$wt * wt * wt * wt$

8. $k^5 * f^4$

$k * k * k * k * k * f * f * f * f$

9. $q^3 * w^4$

$q * q * q * w * w * w * w$

10. x^4

$x * x * x * x$

11. p^5

$p * p * p * p * p$

12. 4^2

$4 * 4$

Solution Steps

$$1) q^5 * m^4$$

The base q is multiplied 5 times

The base m is multiplied 4 times

$$2) f^4$$

The base f is multiplied 4 times

$$3) 4^3$$

The base 4 is multiplied 3 times

$$4) (kv)^2$$

The base kv is multiplied 2 times

$$5) (wk)^3$$

The base wk is multiplied 3 times

$$6) 2^4$$

The base 2 is multiplied 4 times

$$7) (wt)^4$$

The base wt is multiplied 4 times

$$8) k^5 * f^4$$

The base k is multiplied 5 times

The base f is multiplied 4 times

$$9) \quad q^3 * w^4$$

The base q is multiplied 3 times

The base w is multiplied 4 times

$$10) \quad x^4$$

The base x is multiplied 4 times

$$11) \quad p^5$$

The base p is multiplied 5 times

$$12) \quad 4^2$$

The base 4 is multiplied 2 times