

Name: _____

Simplifying Monomials with Exponents

Simplify:

1 $(k^3).(k^3)^2$

2 $(11x)^2.(2y)^4$

3 $\frac{p^4q^2}{p^2q^4}$

4 $2(3u^4v^2)^2$

5 $(2rs^3).(8r^3s)$

6 $(7s^4p^3)^3$

7 $\frac{15e^{9f^4}}{5f^2e^9}$

8 $\frac{-16c^3d^2}{16cd^2}$

9 $(6t^2).(x^2t^3).(t^4x)^2$

10 $(39x).(-x)$

11 $24.(x^0).(2x)$

12 $(-3m^3n^2).(-5m^3n^2)$

Name: _____

Simplifying Monomials with Exponents

Answers

1 $(k^3).(k^3)^2$

k^9

3 $\frac{p^4q^2}{p^2q^4}$

p^2q^{-2}

5 $(2rs^3).(8r^3s)$

$16r^4s^4$

7 $\frac{15e^9f^4}{5f^2e^9}$

$3f^2$

9 $(6t^2).(x^2t^3).(t^4x)^2$

$6t^{13}x^4$

11 $24.(x^0).(2x)$

$48x$

2 $(11x)^2.(2y)^4$

$242x^2y^4$

4 $2(3u^4v^2)^2$

$18u^8v^4$

6 $(7s^4p^3)^3$

$343s^{12}p^{15}$

8 $\frac{-16c^3d^2}{16cd^2}$

$-c^2$

10 $(39x).(-x)$

$-39x^2$

12 $(-3m^3n^2).(-5m^3n^2)$

$15m^6n^4$