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Math worksheet on *'Exponents - Power Law with Variable Base (Positives, Exponent with Power to Exponent) (Level 1)'*. Part of a broader unit on *'Exponents - Power Law - Intro'*

Learn online: app.mobius.academy/math/units/exponents_power_law_intro/

1 Find the answer when this term is raised to its exponent

$(y^5)^2$

a y^{10} **b** y^8 **c** $y^{1,000}$ **d** y^7

2 Find the answer when this term is raised to its exponent

$(p^5)^3$

a p^{16} **b** p **c** $p^{1,500}$ **d** p^{17} **e** p^{15}

3 Find the answer when this term is raised to its exponent

$(x^5)^4$

a x^{23} **b** $x^{2,000}$ **c** x^9 **d** x^{20} **e** x^{19}

4 Find the answer when this term is raised to its exponent

$(d^3)^4$

a d^{11} **b** d^{12} **c** d^7 **d** d^9 **e** d^{10}

5 Find the answer when this term is raised to its exponent

$(z^2)^2$

a z^{400} **b** z^{40} **c** z^4 **d** z^3

6 Find the answer when this term is raised to its exponent

$(c^3)^3$

a c^6 **b** c^7 **c** c^{90} **d** c^9

7 Find the answer when this term is raised to its exponent

$(c^5)^3$

a c^{14} **b** c^8 **c** c^{15} **d** c