

Student Name: _____

Score: _____

Power Rule Worksheet

Sheet 1

Rewrite the following as single exponent using power rule:

Work Space

Example: $(4^2)^3 = 4^{2 \times 3} = 4^6$

$(5^2)^4 =$ _____

$(2^4)^3 =$ _____

$(11^9)^5 =$ _____

$(9^3)^3 =$ _____

$(10^6)^1 =$ _____

$(6^4)^7 =$ _____

$(3^{11})^0 =$ _____

$(8^1)^1 =$ _____

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Answer key

Power Rule Worksheet

Sheet 1

$$(5^2)^4 = 5^8$$

$$(2^4)^3 = 2^{12}$$

$$(11^9)^5 = 11^{45}$$

$$(9^3)^3 = 9^9$$

$$(10^6)^1 = 10^6$$

$$(6^4)^7 = 6^{28}$$

$$(3^{11})^0 = 3^0$$

$$(8^1)^1 = 8^1$$

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