

Student Name: _____

Score: _____

Product Rule Worksheet

Sheet 1

Rewrite the following as single exponent using product rule:

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

Work Space

$5^3 \times 5^7 =$ _____

$8^4 \times 8^4 =$ _____

$2^2 \times 2^5 \times 2^3 =$ _____

$7^6 \times 7^9 =$ _____

$4^0 \times 4^3 \times 4^1 =$ _____

$9^3 \times 9^9 =$ _____

$11^8 \times 11^3 =$ _____

$3^{10} \times 3^7 \times 3^{10} =$ _____

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Answer key

Product Rule Worksheet

Sheet 1

$$5^3 \times 5^7 = 5^{10}$$

$$8^4 \times 8^4 = 8^8$$

$$2^2 \times 2^5 \times 2^3 = 2^{10}$$

$$7^6 \times 7^9 = 7^{15}$$

$$4^0 \times 4^3 \times 4^1 = 4^4$$

$$9^3 \times 9^9 = 9^{12}$$

$$11^8 \times 11^3 = 11^{11}$$

$$3^{10} \times 3^7 \times 3^{10} = 3^{27}$$

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