Math Practice - Grade 8

M2 Exponents, roots, scientific notation - Add, subtract, multiply, and divide in scientific notation

M2 8.EE.A.1, 8.EE.A.2, 8.EE.A.3, 8.EE.A.4

Name: _____ Date: _____

Work out the sum, difference, product, or quotient. Write the answer in scientific notation.

Example: Work out $(8.6 \times 10^2) \times (4.2 \times 10^2)$.

How: To add or subtract, first make the exponents match. To multiply, multiply the first parts and add the exponents. To divide, divide the first parts and subtract the exponents.

$(8.6 \times 10^2) \times (4.2 \times 10^2) =$ 3.612×10^5

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1 **Work out $(3.8 \times 10^1) - (7.5 \times 10^0)$.**

$$(3.8 \times 10^1) - (7.5 \times 10^0) = \square$$

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2 **Work out $(3 \times 10^3) + (6 \times 10^2)$.**

$$(3 \times 10^3) + (6 \times 10^2) = \square$$

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3 **Work out $(7.7 \times 10^{-2}) - (5.3 \times 10^{-3})$.**

$$(7.7 \times 10^{-2}) - (5.3 \times 10^{-3}) = \square$$

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Name: _____ Date: _____

Work out the sum, difference, product, or quotient. Write the answer in scientific notation.

Example: Work out $(6 \times 10^3) \times (5.1 \times 10^3)$.

How: To add or subtract, first make the exponents match. To multiply, multiply the first parts and add the exponents. To divide, divide the first parts and subtract the exponents.

$(6 \times 10^3) \times (5.1 \times 10^3) =$ 3.06×10^7

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1 **Work out $(3.5 \times 10^1) / (2.5 \times 10^1)$.**

$$(3.5 \times 10^1) / (2.5 \times 10^1) = \square$$

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2 **Work out $(7 \times 10^1) / (5 \times 10^2)$.**

$$(7 \times 10^1) / (5 \times 10^2) = \square$$

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3 **Work out $(9.5 \times 10^1) / (5 \times 10^2)$.**

$$(9.5 \times 10^1) / (5 \times 10^2) = \square$$

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Name: _____ Date: _____

Work out the sum, difference, product, or quotient. Write the answer in scientific notation.

Example: Work out $(5.5 \times 10^3) / (5 \times 10^2)$.

How: To add or subtract, first make the exponents match. To multiply, multiply the first parts and add the exponents. To divide, divide the first parts and subtract the exponents.

$(5.5 \times 10^3) / (5 \times 10^2) =$ 1.1×10^1

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1 **Work out $(8.6 \times 10^1) \times (5.6 \times 10^0)$.**

$$(8.6 \times 10^1) \times (5.6 \times 10^0) = \square$$

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2 **Work out $(8.2 \times 10^3) / (2 \times 10^{-2})$.**

$$(8.2 \times 10^3) / (2 \times 10^{-2}) = \square$$

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3 **Work out $(8.8 \times 10^0) \times (7.8 \times 10^1)$.**

$$(8.8 \times 10^0) \times (7.8 \times 10^1) = \square$$