Math Warm Up 2 (Demo Version)

Read each question carefully.

AZ-8.EE.A.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, 3^2 × 3^–5 = 3^–3 = 1/3^3 = 1/27. [From cluster: Work with radicals and integer exponents]

1) Which of the following is equivalent to the expression below?

$$(6^2)^3$$

A) 6^1

B) 6^5

C) 6^6

D) 6^{23}

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2)

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

A) 3^0

B) 3^1

C) 3^6

D) 3^9

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3)

$4^2 \times 4^6 =$

A) 4^3

B) 4^4

C) 4^8

D) 4^{12}

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4) Which of the following has the same value as $\frac{5^{-2}}{5^{-5}}$?

A) $25^{\frac{2}{5}}$

B) 5^{-3}

C) $1^{\frac{2}{5}}$

D) 5^3

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5) Which of the following is equivalent to the expression below?

$$\frac{4^5}{4^2}$$

A) $4^{2.5}$

B) 4^3

C) 4^7

D) 4^{52}
