Math Warm Up 3 (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) If the equation below is true, what is the missing exponent?

$$3^{-3} \times 3^4 \times 3^2 = 3^{\boxed{?}}$$

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]

2) Which of the following has the same value as $\frac{2^8}{2^2}$?

    A) 4^{10}

    B) 2^{10}

    C) 2^6

    D) 1^6

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3)

$3^4 =$

    A)
      2^6

    B)
      4^3

    C)
      9^2

    D)
      81^0

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4)

$\dfrac{4^7}{4^5} =$

    A)
      4^{12}

    B)
      4^2

    C)
      4^{-2}

    D)
      1^{12}

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5)

$$3^2 \times 3^4 =$$

A)
3^6

B)
3^8

C)
9^6

D)
9^8