

Scientific Notation Try out (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, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$. [From cluster: Work with radicals and integer exponents]

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

$$(2^3)(2^4)$$

- A) 2^1
- B) 2^7
- C) 2^{12}
- D) 2^{34}

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- 2) Which of the following has the same value as $4^3 \cdot 4^2$?

- A) 16^6
 - B) 16^5
 - C) 4^6
 - D) 4^5
-

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3) Which of the following has the same value as $3^2 \cdot 3^{-5}$?

- A) 9^{-10}
 - B) 3^{-10}
 - C) 9^{-3}
 - D) 3^{-3}
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4) What is the value of the expression below?

$$(2^2 + 9) \times 5^2$$

- A) 109
 - B) 325
 - C) 3,025
 - D) 4,225
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5) Which of the following has the same value as $7^7 \cdot 7^{-4}$?

- A) 49^{-3}
 - B) 7^{-3}
 - C) 7^3
 - D) 49^3
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