Week 9 Wednesday Homework Course 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, $3^2 \times 3^4 = 3^4 = 1/3^3 = 1/27$. [From cluster: Work with radicals and integer exponents]

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

A) 16⁶

B) 16⁵

C) 4⁶

D) 4⁵

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]

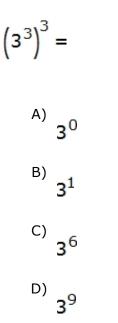
2) What is the value of the expression below?

(2 ² +	9) × 5 ²
A)	109
B)	325
C)	3,025
D)	4,225

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3)



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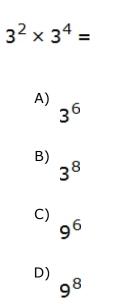
⁴⁾ Which of the following has the same value as $\frac{2^8}{2^2}$?

A)	4 ¹⁰
B)	2 ¹⁰
C)	2 ⁶
D)	1 ⁶

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5)



AZ-8.EE.A.2 Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that SQRT2 is irrational. [From cluster: Work with radicals and integer exponents]

6) What does the following represent?



- A) the square root of 38
- B) the square of 38
- C) the quotient of 38 and 2
- D) 38 multiplied by 2