Lesson 12 Practice Problems

1. Select **all** the expressions that are equivalent to 64.

   A. 2^6

   B. 2^8

   C. 4^3

   D. 8^2

   E. 16^4

   F. 32^2

2. Select **all** the expressions that equal 3^4.

   A. 7

   B. 4^3

   C. 12

   D. 81

   E. 64

   F. 9^2

3. 4^5 is equal to 1,024. Evaluate each expression.

   a. 4^6

   b. 4^4

   c. $4^3 \cdot 4^2$

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4. $6^3 = 216$. Using exponents, write three more expressions whose value is 216.

5. Find two different ways to rewrite $3xy + 6yz$ using the distributive property.

(From Unit 6, Lesson 11.)

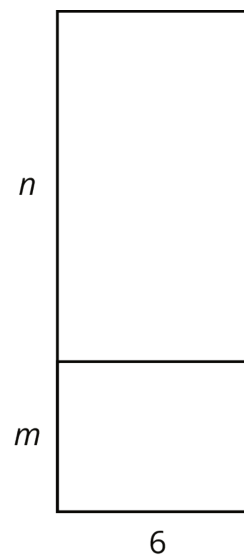6. Solve each equation.

$a - 2.01 = 5.5$ $b + 2.01 = 5.5$

$10c = 13.71$ $100d = 13.71$

(From Unit 6, Lesson 5.)

7. Which expressions represent the total area of the large rectangle? Select **all** that apply.

A. $6(m + n)$

B. $6n + m$

C. $6n + 6m$

D. $6mn$

E. $(n + m)6$

8. Is each statement true or false? Explain your reasoning.

a. $\frac{45}{100} \cdot 72 = \frac{45}{72} \cdot 100$

b. 16% of 250 is equal to 250% of 16

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