## Unit 6 Lesson 12 Cumulative Practice Problems

1. Select **all** the expressions that are equivalent to 64.
	1. $2^{6}$
	2. $2^{8}$
	3. $4^{3}$
	4. $8^{2}$
	5. $16^{4}$
	6. $32^{2}$
2. Select **all** the expressions that equal $3^{4}$.
	1. 7
	2. $4^{3}$
	3. 12
	4. 81
	5. 64
	6. $9^{2}$
3. $4^{5}$ is equal to 1,024. Evaluate each expression.
	1. $4^{6}$
	2. $4^{4}$
	3. $4^{3}⋅4^{2}$
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.)
1. Solve each equation.
* $a−2.01=5.5$
*
* $b+2.01=5.5$
* $10c=13.71$
*
* $100d=13.71$
* (From Unit 6, Lesson 5.)
1. Which expressions represent the total area of the large rectangle? Select **all** that apply.
* 
* ​​
	1. $6(m+n)$
	2. $6n+m$
	3. $6n+6m$
	4. $6mn$
	5. $(n+m)6$
* (From Unit 6, Lesson 10.)
1. Is each statement true or false? Explain your reasoning.
	1. $\frac{45}{100}⋅72=\frac{45}{72}⋅100$
	2. 16% of 250 is equal to 250% of 16
* (From Unit 3, Lesson 16.)



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