Algebra TAPS Fourth Quarter

TAPS Questions Problem Type?	*Simplify (factor if necessary):* $\frac{6xy + 36x^2y}{6xy}$	*Simplify:* $-(-2)^{-3} =$ $\frac{1}{-2^{-3}} =$	*Factor the greatest common factor:* $3a^2x^3y^5 - 6a^3x^4y^2 + 9a^4x^2y^3$	*Simplify. Write all the variables in the numerator.* $\frac{x^2y^{-3}z^{-1}}{z^{-3}yx^{-3}}$	*Expand by using the distributive property, Write the answer with all exponents positive.* $\frac{a^{-2}}{b}\left(\frac{b^2}{a^3} - \frac{5ma^2}{b^{-2}}\right)$
Find? (What Are You Supposed to Find? Will the answer be in any Particuular **Unit**?)					
Given? (What Facts Are you Given That you *Need* to Solve this Problem? ignore the rest!)					
Tricks You'll Use? List all Algorithms (what are Algorithms?) Formulas, Shortcuts, Techniques					
Solution? Show Each Step Defend Each Step					
Box and Check	**Answers:** **1 + 6x**	**1/8** **-8**	**$3a^2x^2y^2(xy^3 - 2ax^2 + 3a^2y$**	**$x^5y^{-4}z^2$**	$\frac{b}{a^3}$ - 5mb

Saxon 8/7 TAPS Fourth Quarter

TAPS Questions Problem Type?	Add: $\frac{3}{x}+\frac{1}{y}+\frac{2}{5}=$	LCM of $4x^2y^3$ and $6x^3y^2$	*Simplify by adding like terms. Write the answer with all variables in the denominator.* $3x^3x^{-1}yyz^{-3}$ - $\frac{5x^2y^2}{z^3}$ - $\frac{x^3y^2}{xz^3}$	*Evaluate:* $-x^3+m(x-m)+\lvert m-x\rvert$ x = -2 m = -4
Find? (What Are You Supposed to Find? Will the answer be in any Particuular **Unit**?)				
Given? (What Facts Are you Given That you *Need* to Solve this Problem? ignore the rest!)				
Tricks You'll Use? List all Algorithms (what are Algorithms?) Formulas, Shortcuts, Techniques				
Solution? Show Each Step Defend Each Step				
Box and Check	**Answers:** $\frac{15y+5x+2xy}{5xy}$	$12x^3y^3$	$-\frac{3}{x^{-2}y^{-2}z^3}$	2