Name	Class	_ Date	
The Mole: Multi Step Convers	ions: Quiz 3b	Г	
Make sure to <b>SHOW ALL WO INCLUDE UNITS!</b>	ORK and		/5

1. A *triatomic* ( $X_3$ ) element was discovered on the planet Chemisfun. If 2.27 x  $10^{22}$  molecules of the element have a mass of 30.8 g, what is the element's **atomic mass** in g/mol?

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Answers:

3 atoms = 1 molec





 $\frac{30.8g}{2.27x10^{22} molec} x \frac{1 \, molec}{3 \, atoms} x \frac{6.02x10^{23} atoms}{1 \, mol} = 2.72x10^{2} \, g \, / \, mol$