



Given the following information:

$$X = 10 \text{ g / mol}$$

$$Y = 20 \text{ g / mol}$$

$$M = 6 \text{ g / mol}$$

$$T = 5 \text{ g / mol}$$

If I begin with 100 g of solution X and mix it with 1.8×10^{24} molecules of solution Y. How many moles of M will precipitate out of solution AND what volume of T_2 gas will be produced at STP?