

A - will vary

$$B - 1 \text{ Bs} = 5.0 \text{ g}$$

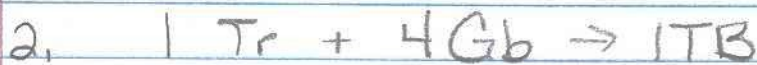
$$50 \text{ g Bs} \times \frac{1 \text{ Bs}}{5.0 \text{ g Bs}} \times \frac{1 \text{ PS}}{1 \text{ Bs}} = 10 \text{ PS}$$

50 g Bs would yield 10 PS

$$48 \text{ g P} \times \frac{1 \text{ P}}{4.0 \text{ g P}} \times \frac{1 \text{ PS}}{1 \text{ P}} = 12 \text{ PS}$$

48 g P would yield 12 PS

★ Bs is limiting reactant
10 PS



a. will vary

$$b. \quad 1 \text{ Tr} = 2.0 \text{ g}$$

$$12.5 \text{ g Tr} \times \frac{1 \text{ Tr}}{2.0 \text{ g}} \times \frac{1 \text{ TB}}{1 \text{ Tr}} = 6.25 \text{ TB}$$

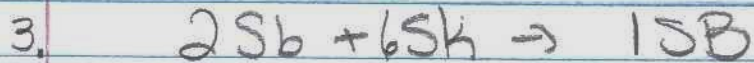
12.5 g Tr would yield 6.25 TB

$$1 \text{ Gb} = 1.5 \text{ g Gb}$$

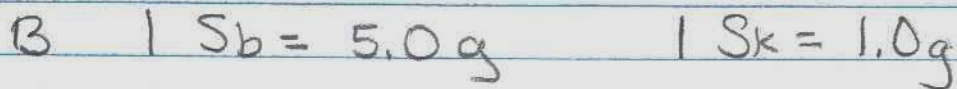
$$15.0 \text{ g Gb} \times \frac{1 \text{ Gb}}{1.5 \text{ g Gb}} \times \frac{1 \text{ TB}}{4 \text{ Gb}} = 2.5 \text{ TB}$$

15.0 g Gb would yield 2.5 TB

★ Gb is limiting reactant
2.5 TB produced



A will vary



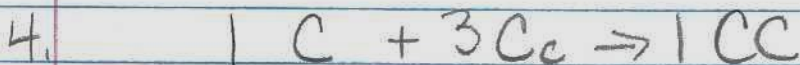
$$40\text{g Sb} \times \frac{1\text{Sb}}{5.0\text{g Sb}} \times \frac{1\text{SB}}{2\text{Sb}} = 4\text{SB}$$

40 g Sb yields 4 SB

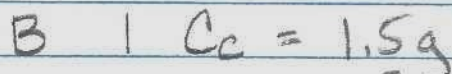
$$26.0\text{g Sk} \times \frac{1\text{Sk}}{1.0\text{g}} \times \frac{1\text{SB}}{6\text{Sk}} = 4.33\text{SB}$$

26.0g Sk yields 4.33 SB

★ Sb is limiting reactant
4 SB produced



A will vary



$$60.0\text{g Cc} \times \frac{1\text{Cc}}{1.5\text{g Cc}} \times \frac{1\text{CC}}{3\text{Cc}} = 13.3\text{CC}$$

60.0g Cc would yield 13.3 CC



$$66.0\text{g C} \times \frac{1\text{C}}{11.0\text{g C}} \times \frac{1\text{CC}}{1\text{C}} = 6\text{CC}$$

66.0g C would yield 6 CC

★ C is limiting reactant
6 CC produced