

 12.	2 SO <sub>2</sub> (g)	+ O <sub>2</sub> (g)	$\leftrightarrow$	2 SO <sub>3</sub> (g)	
W	What type o	f reaction	1 is	shown above?	
B C	<ul> <li>a) synthesis</li> <li>b) decomposition</li> <li>c) single re</li> <li>c) double re</li> </ul>	osition placemen			
 tł	-			Table F, which t soluble at 298	
	A) AgNO3 B) AgCl			PbCrO <sub>4</sub> PbCO <sub>3</sub>	
	Given the ba eaction:	alanced e	qua	tion representin	ng a
		${ m O}_2(g)  ightarrow$	3C(	$O_2(g) + 4H_2O(g)$	g)
re		the comp		c of moles of O2 e combustion of	
	/				
 15. C		alanced e	qua	7.5 mol ation representing and oxygen:	ng the
A	$G_3H_8 + 5 O_2$ According to provide the sygen to provide the system of the system is the system of the system is the system of the system o	o this equ	latio	on, which ratio	of
B C	$\begin{array}{r} 5 \text{ grams} \\ \hline 1 \text{ gram (} \\ \hline 1 \text{ gram (} \\ \hline 1 \text{ gram (} \\ \hline 1 \text{ mole (} \\ \hline 1 \text{ mole (} \\ \hline 1 \text{ gram (} \\ \hline 1 \text{ gram (} \\ \hline 1 \text{ mole (} \\ 1 \text{ mole (} \\ \hline 1 \text{ mole (} \\ 1 \text{ mole (} \\ \hline 1 \text{ mole (} \\ 1  $	$\begin{array}{c} C_{3}H_{8} \\ O_{2} \\ \hline \\ J_{3}H_{8} \\ ns O_{2} \\ \hline \\ s C_{3}H_{8} \\ es O_{2} \end{array}$			
 16. C	Given the ba	alanced e	qua	tion:	
C V tł	2 C <sub>4</sub> H <sub>10</sub> (g) + 13 O <sub>2</sub> (g) $\rightarrow$ 8 CO <sub>2</sub> (g) + 10 H <sub>2</sub> O(g) What is the total number of moles of O <sub>2</sub> (g) that must react completely with 5.00 moles of C <sub>4</sub> H <sub>10</sub> (g)?				
	A) 10.0			26.5	
В	3) 20.0		D)	32.5	

17. Given the balanced equation:

 $Fe(s) + CuSO_4(aq) \rightarrow FeSO_4(aq) + Cu(s)$ 

What total mass of iron is necessary to produce 1.00 mole of copper?

A)	26.0 g	C)	112 g
B)	55.8 g	D)	192 g

18. Given the reaction

 $N_2(g) + 3 H_2(g) \rightarrow 2 NH_3(g)$ 

How many liters of ammonia, measured at STP, are produced when 28.0 grams of nitrogen is completely consumed?

A) 5.60	C) 22.4
B) 11.2	D) 44.8

19. Given the reaction:

$$2 \text{ C}_8\text{H}_{18}(g) + 25 \text{ O}_2(g) \rightarrow 16 \text{ CO}_2(g) + 18 \text{ H}_2\text{O}(g)$$

What volume of  $C_8H_{18}(g)$  will completely react to produce exactly 36 liters of  $H_2O(g)$ ?

A) 27 L	C) 36 L
B) 2.0 L	D) 4.0 L

20. Given the reaction:

 $(NH4)_2CO_3 \rightarrow 2 NH_3 + CO_2 + H_2O$ 

What is the minimum amount of ammonium carbonate that reacts to produce 1.0 mole of ammonia?

A) 0.25 mole	C) 17 moles
B) 0.50 mole	D) 34 moles