

Topic 6 Calculations involving the mole and balanced equations

1.

What is the GFM of carbon dioxide

- A 4.4g
- B 44g
- C 88g
- D 12g

2. What is the GFM of water

- A 16g
- B 2g
- C 36g
- D 18g

3. How many moles are present in 160g of methane (CH_4) gas ?

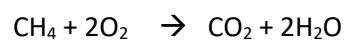
- A 1 mole
- B 2 moles
- C 10 moles
- D 100 moles

4. How many moles are present in 32g of sulphur dioxide gas

- A 1 mole
- B 2 moles
- C 0.5 moles
- D 4 moles

5.

Calculate the mass of carbon dioxide gas produced when 64 g of methane (CH₄) burns completely in air



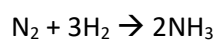
- A 88g
- B 44g
- C 176g
- D 64g

6. Calculate the mass of oxygen required to react with 10g of calcium



- A 4g
- B 8g
- C 10g
- D 16g

7. Calculate mass of ammonia (NH₃) produced when 28g of nitrogen reacts with excess hydrogen



- A 17g
- B 34g
- C 28g
- D 68g

