

Chemistry 11  
Numbers and Measurement Unit Test  
Version #1

Name: \_\_\_\_\_

Block: \_\_\_\_\_

Outcome 1

1. C

2. A

3. B

4. B

Outcome 2

5. C

6. C

7. B

8. C

Outcome 3

9. B

10. D

11. A

12. B

Review

13. A

14. A

15. A

16. D

17. B

18. A

19. B

20. D

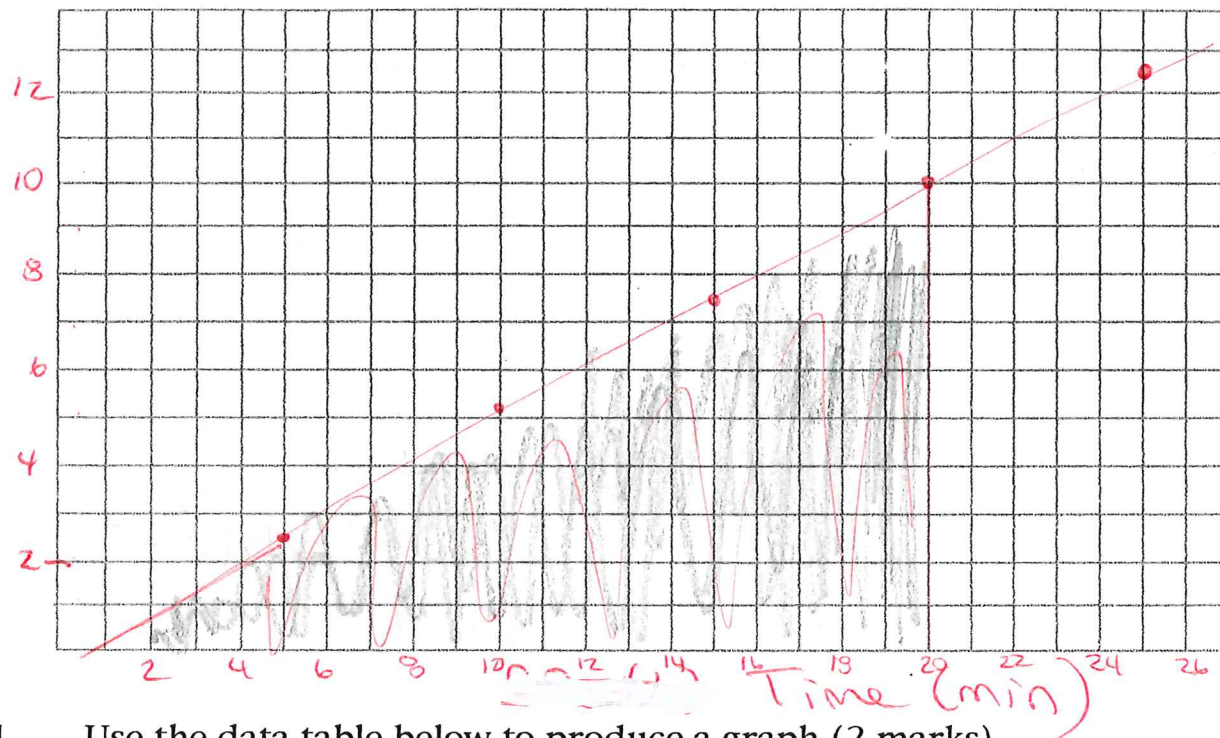


PART 2: Calculations

Solve the Following: (remember units!)

- 1)  $12.0 \text{ cm} \times 10.0 \text{ cm}$   $120. \text{ cm}^2$
- 2)  $32.00 \text{ cm} \div 16.0 \text{ s}$   $2.00 \text{ cm/s}$
- 3)  $0.750 \text{ cm} \times 15.0 \text{ cm}$   $11.25$   $11.3 \text{ cm}^2$
- 4)  $100.0 \text{ cm} \div 5.0 \text{ s}$   $20. \text{ cm/s}$
- 5)  $2.0 \text{ m} \times 6.1 \text{ m} \times 50. \text{ m}$   $610 \text{ (or)} 6.1 \times 10^2 \text{ m}^3$
- 6)  $23.56 \text{ g} + 5.695 \text{ g}$   $29.255$   $29.26 \text{ g}$
- 7)  $0.001 \text{ m} + 0.0210 \text{ m}$   $0.022 \text{ m}$
- 8)  $(6.02 \times 10^8 \text{ s}) \times (3.0 \times 10^3 \text{ s})$   $1.806 \times 10^{12}$   $1.8 \times 10^{12} \text{ s}^2$
- 9)  $(9.90 \times 10^9 \text{ m}) \div (3.30 \times 10^3 \text{ m})$   $3.00 \times 10^6$
- 10)  $5.0 \times 10^5 \text{ cm} + 2.0 \times 10^5 \text{ cm}$   $7.0 \times 10^5 \text{ cm}$

## Volume CO<sub>2</sub> vs Time.



1. Use the data table below to produce a graph (2 marks)

CO <sub>2</sub> produced( Litres) y axis	Time (min) x axis
2.5	5.0
5.1	10.0
7.4	15.0
10	20.0
12.6	25.0

2. Based on the graph, how much gas would be produced in 17.5 minutes? (Show the point on the graph) (1 mark)

$$\sim 8.5 - 8.75 \text{ L}$$

3. Use the graph to calculate the CO<sub>2</sub> produced per minute. (Calculation triangle must be drawn on the graph.) (1 mark)

$$\text{slope} = \frac{10.0 \text{ L}}{20.0 \text{ mins}} = 0.500 \frac{\text{L}}{\text{mins}} \text{ of CO}_2 \text{ produced.}$$