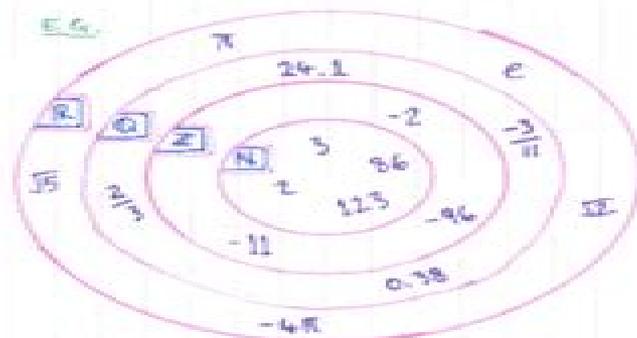


**1.1** - NUMBER SETS

- N** - Natural - Positive whole numbers  
1, 2, 3, 4, 5, ...
- Z** - Integers - All whole numbers  
-3, -2, -1, 0, 1, 2, ...
- Q** - Rational - All numbers  $\frac{a}{b}$   
 $\frac{1}{2}, 0.6, -5, \dots$
- R** - Real - (All numbers)  
 $\pi, \sqrt{2}, -\sqrt{3}, e$

→ Each number set contains the one(s) above it

**1.2** - APPROXIMATION/ERROR

**ROUNDING** → to  $n$  decimal places: Rounding to 1 d.p. is the same as rounding to one-tenth.  
Rounding to 2 d.p. is the same as rounding to one-hundredth. Etc...

To  $n$  significant figures: If the  $(n+1)^{\text{th}}$  figure is  $< 5$ , keep  $n^{\text{th}}$  figure the same.  
If  $> 5$ , then add 1 to that figure.  
Leading zeros are not significant

E.G. → Round 0.078614 to: a) 2 d.p. = 0.08      b) 2 s.f. = 0.079

**ESTIMATION** → If you're told to 'estimate' a calculation in a Math Studies exam, you must round every number involved to 1 s.f., then calculate.

E.G. →  $298 \times 10.75 \approx 300 \times 10 = 3000$       E.G.2 →  $\sqrt{103} \approx \sqrt{100} = 10$

**PERCENTAGE ERROR** If there has been an estimation of some kind, you can calculate the % difference between estimation & actual.

**NOTE**

$$\text{ERROR} = \left| \frac{V_{\text{act}} - V_{\text{est}}}{V_{\text{e}}} \right| \times 100\%$$

E.G. → Estimate = 3000      Actual = 3203.5       $\text{ERROR} = \left| \frac{3203.5 - 3000}{3000} \right| \times 100 = 6.78\%$

**1.3** - STANDARD FORM

**DEFINITION** → Any number can be written:  $a \times 10^k$  [ $k \in \mathbb{Z}$ ,  $1 \leq a < 10$ ]

E.G. →  $236000 = 2.36 \times 10^5$

E.G.2 →  $0.004910 = 4.91 \times 10^{-3}$

# Ib Math Sl Study Guide

**National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools**

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