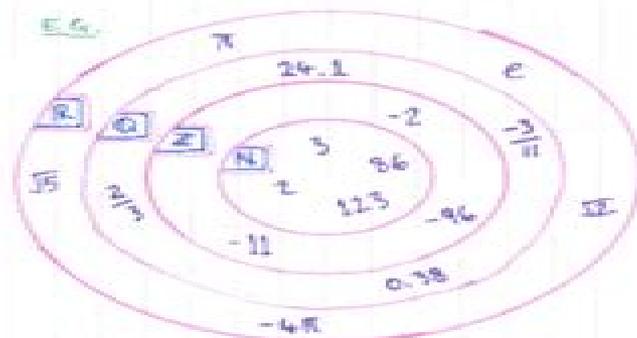


1.1 - NUMBER SETS

- \mathbb{N} - Natural - Positive whole numbers
1, 2, 3, 4, 5, ...
- \mathbb{Z} - Integers - All whole numbers
-3, -2, -1, 0, 1, 2, ...
- \mathbb{Q} - Rational - All numbers $\frac{a}{b}$
 $\frac{1}{2}, 0.6, -5, \dots$
- \mathbb{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^{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 → $0.004910 = 4.91 \times 10^{-3}$

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