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 MATHEMATICS

Paper 02 – General Proficiency

1. Question 1

(a) (i)

$$4\frac{1}{5} \times \frac{1}{3} - 1\frac{1}{4}$$

$$\left(4\frac{1}{5} \times \frac{1}{3}\right) - 1\frac{1}{4}$$

$$\frac{7}{5} - \frac{5}{4} = \frac{3}{20}$$

(ii) $\frac{4.1 - 1.25^2}{0.005} = \frac{2.5375}{0.005} = 507.5$

(b) (i) $\frac{75}{100} \times 15400 = 11550$

(ii) $\frac{20790 - 15400}{15400} \times 100\%$
 $\frac{5390}{15400} \times 100\% = 45\%$

(b) Flashes 5 times every 10 seconds so it flashes once every 2 seconds

How many seconds are in a day?

$$(60 \times 60) \times 24 = 86400$$

$$\frac{86400}{2} = 43200$$

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JS Bruner



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configuration $3s^2$ explain which part refers to the number of electrons the energy level and the sublevel what is the maximum number of electrons that can occupy a single orbital state and explain Hund's rule

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web one more point needs to be emphasized about the relationship between electron configuration and the periodic table the atoms of elements in the same vertical column of the table have similar electron configurations for example consider the alkaline earth elements group IIA

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