Question 10

i) Correct number = 3.625

Number wrongly read as = 3.265

Error = 3.625 − 3.265

= 0.360

% Error = $\frac{0.360}{3.625} \times 100$

$= \frac{360}{3625} \times 100 = \frac{36000}{3625} = 9.93\%$

ii) Correct number = 5.87×10^3

No. wrongly written = 5.87×10^3

$= 0.09 \times 10^3$

% Error = $\frac{0.09 \times 10^3}{5.78 \times 10^3} \times 100$

$= \frac{0.09}{5.78} \times 100 = \frac{9}{578} \times 100 = \frac{900}{578}\%$

$\Rightarrow 1.56\%$

11) since winning candidate secured 58% of vote polled

= (100 − 58)% of the vote polled

= 42% of the vote polled

Difference of votes = 58 − 42
= 16% of the votes polled.

16% of votes polled = 18,336

$\Rightarrow \frac{16}{100}$ of votes polled = 18,336

$\Rightarrow$ votes polled = $18,336 \times \frac{100}{16}$

$\Rightarrow$ votes polled = $\frac{18,33,600}{16}$

$\Rightarrow$ votes polled = 1,14,600

winning candidates

$= \frac{58}{100} \times 1,14,600$

$= 66,468$

losing candidate.

$= \frac{42}{100} \times 1,14,600$

$= 48,132$

Votes polled = 1,14,600.

12) since the losing candidates seconed 47% of the votes polled

= (100 - 47)% the votes polled

= 53% of the votes polled

Difference of votes = 53 - 47

= 6% of the votes polled