8) Marks scored by Kavita in Maths = $\frac{120}{150} = \frac{4}{5}$

Percentage in Math = $\frac{4}{5} \times 100 = 80\%$.

Marks scored by Kavita in English

Percentage in English = $\frac{136}{200} \times 100 = 68\%$.

Percentage in Science = $\frac{108}{150} \times 100 = 72\%$.

Total marks scored = 120 + 136 + 108 = 364
Maximum marks = 150 + 200 + 150 = 500
Overall percentage =

$= \frac{364}{500} \times 100 = 72.8\%$.

9) Let age of B = 100 years.
∴ Age of A = $100 + 100 \times \frac{25}{100} = 125$ years.

Difference in age by which A is older than B = 125 − 100
= 25 years

∴ Percentage by B younger than A = $\frac{25}{125} \times 100 = 20$ years

10) ii) $180 + 180 \times \frac{25}{100} = 225$

iii) $140 - 140 \times \frac{18}{100} = 140 - \frac{126}{5} = 140 - 25.2 = 114.8$

(ii) Total number of votes = 29200 + 58800 + 72000 = 160000

∴ Percentage of votes scored by winning candidate

$= \frac{72000}{160000} \times 100 = 45\%$

(24 i) Let the number be x

$x + x \times \frac{23}{100} = 861$

$= \frac{100x + 23x}{100} = 861$

$x\left(\frac{123}{100}\right) = 861$

$x = \frac{861 \times 100}{123} = 700$

∴ Req. no. = 700

(ii) Let the number be x

$x - x \times \frac{16}{100} = 798$

$= \frac{100x - 16x}{100} = 798$

$= x\left(\frac{84}{100}\right) = 798$

$= x = \frac{798 \times 100}{84} = \frac{114 \times 25}{3} = 950$

∴ Req. no = 950

13. Let price of x kg of sugar = ₹100
Increase in price by 20%.
∴ New price = 100 + 20 = ₹120
∴ ₹120, sugar obtained = x kg
for ₹100, sugar obtained = $\frac{x}{120} \times 100 = \frac{5x}{6}$ kg

Original consumption = x kg.
New consumption = $\frac{5x}{6}$ kg

Decrease in consumption = $x - \frac{5x}{6} = \frac{x}{6}$

Req. percentage of decrease in consumption = $\frac{x}{6} \div x \times 10$

$= \frac{x}{6x} \times 100 = \frac{100}{6} = \frac{50}{3} = 16\frac{2}{3}$