8) Total marks in Maths = 150
Mark scored by Kavita = 120
Percentage = $\frac{120}{150} \times 100$
$= 80\%$

Total mark in English = 200
Mark scored by Kavita = 136
Percentage = $\frac{136}{200} \times 100$
$= 68\%$

Total mark in Science = 150
Mark scored by Kavita = 102
Percentage = $\frac{102}{150} \times 100$
$= 78\%$

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Total mark scored = 120 + 136 + 108 = 364

Maxium mark scored = 150 + 200 + 150 = 500

Change Overall % = $\frac{364}{500} \times 100 = \frac{364}{5} = 72.8\%$

9) Let the B = 100 years

Age of A = $100 + 100 \times \frac{25}{100}$ = 125 years

Difference in age = 125 - 100 = 25 years

If A's age is 125 then B's age is less than A = 25

If A's age is 1 then B's age is less than A = $\frac{25}{125}$

If A's age is 100 then B's age is less than A = $\frac{25}{125} \times 100 = 20\%$

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11) Total votes polled = 29200 + 58200 + 72000
= 1,60,000

Percentage of votes scored by the winning candidate

$= \frac{72000}{160000} \times 100$ $= \frac{720}{768\,42}$

$= \frac{72 \times 10}{76}$ $= \frac{9 \times 10}{2}$ $= 45\%$

12) i) Let the number be x

ATQ,

$$x + 23\% \text{ of } x = 861$$

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

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

$$\Rightarrow \frac{123x}{100} = 861$$

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

$$\Rightarrow x = 700$$

ii) Let the number be x

ATQ

$$x - 16\% \text{ of } x = 798$$

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

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

$$\Rightarrow \frac{84x}{100} = 798$$

$$\Rightarrow x = \frac{798 \times 100}{84}$$

$$\Rightarrow x = \frac{114 \times 100}{12 \times 3}$$

$$\Rightarrow x = \frac{114 \times 25}{3}$$

$$\Rightarrow x = 950$$

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(3) Let the original price be ₹100

New price = 100+20 = 120

The price should be decreased = ₹120-₹100
= ₹20

∴ On ₹120, the price should be decreased = ₹20.

∴ On ₹1 the price should be decreased = $\frac{20}{120}$

∴ On ₹100 the price should be decreased = $\frac{20}{120} \times 100$

$= \frac{50}{3}$

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