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Assignment : Business Maths

Q:1) What number is increased by 25 gives 85?

$$x + 25 = 85$$

$$x = 85 - 25$$

$$x = 60$$

Q:2) Heat and electricity together cost as a company Rs 1080 expense cost to the company?

Answer: \rightarrow

From eq (1)

$$x = 24 - y \rightarrow (3)$$

Put in eq (2)

$$\text{eq (2)} \Rightarrow 26 - y - 3 = 4(y - 3)$$

$$-y + 23 = 4y - 12$$

Rearranging this equation

$$4y + y = 23 + 12$$

$$5y = 35$$

$$y = \frac{35}{5}$$

$$y = 7$$

(Q:3) A Group Bonus is divided among 4 employees in the ratio of their

----- received by each employee?

Given Ratio : 7:4:2:5
Total Bonus : Rs 540

$$\begin{aligned}\text{Sum of Ratios} &= 7+4+2+5 \\ &= 18\end{aligned}$$

Amount received by first employee

$$\begin{aligned}&= \frac{7}{18} \times 540 = 7 \times 30 \\ &= 210\end{aligned}$$

Second employee gets

$$\begin{aligned}&\frac{4}{18} \times 540 = 4 \times 30 \\ &= 120 \text{ Answer}\end{aligned}$$

Q:4) A father is four times as old as his son now. After 24 years he would be twice ----- father and his son?

Answer:- Present age of son = 12 years
Put $y = 12$ in eq (1)

$$x = 4(12)$$

$$x = 48$$

So present age of father is = 48 years

Q:5) The sum of the age of a girl and her brother is 26 years. Three years ago ----- the girl and his brother.

Answer:-

Put $x = 36$ in Eq (2)

$$y = 36 + 12$$

$$y = 48$$

Required number are 36 & 48

(Q:6) The sum of two numbers is 84
and one of them is 12
(36 and 48) ? two numbers

Answer:-

Let numbers are x and y
The first condition
 $x + y = 84 \rightarrow \text{①}$

And by 2nd condition

$$y = x + 12$$

Put $y = x + 12$ in eq (i)

$$x + x + 12 = 84$$

$$2x = 84 - 12$$

$$2x = 72$$

$$x = 72/2$$

$$x = 36 \text{ Answer.}$$