

Answer on Question #56331 – Math – Algebra

Question

Partners in a firm divide a profit of Rs. 70000 among them in the ratio of 2:3:4:5. How much did each of them get?

Solution

Let x be a proportionality factor. Then the first partner got $2x$, the second partner got $3x$, the third partner got $4x$ and the fourth partner got $5x$.

Since the total sum they got together was 70000, it can be written as the following equation:

$$2x + 3x + 4x + 5x = 70000$$

$$14x = 70000$$

$$x = 5000$$

Then

the first partner got $5000 \cdot 2 = 10000$;

the second partner got $5000 \cdot 3 = 15000$;

the third partner got $5000 \cdot 4 = 20000$;

the fourth partner got $5000 \cdot 5 = 25000$.