

Answer on Question #49768, Math, Algebra

Problem: Partnership profits of \$450 000 are to be divided among three partners A,B,C, respectively, according to the ratio 1/8: 1/6: 1/12. Find A's share of the profits.

Solution: The partner A should receive

$$\frac{\frac{1}{8}}{\frac{1}{8} + \frac{1}{6} + \frac{1}{12}} = \frac{\frac{3}{24}}{\frac{3}{24} + \frac{4}{24} + \frac{2}{24}} = \frac{3}{9} = \frac{1}{3}$$

of the profits or $\frac{1}{3} \cdot 450000 = \150000 .

Answer: \$150000.

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