Total budget: 100,000,000.

Equipment = 100.

$x \Rightarrow$ Plane = 50,000

$y \Rightarrow$ tank = 75,000

$z \Rightarrow$ Rocket = 25,000

by Prbm,

$$x+y+z = 100 \rightarrow (1)$$

$$500{,}000x + 75{,}000y + 25000z = 10{,}000{,}000 \rightarrow (2)$$

divide with 25000.

$$(2) \Rightarrow 20x + 3y + z = 400$$

$$(1) \Rightarrow x+y+z = 100$$

$$(2) \Rightarrow 20x+3y+z = 400$$

Sub $(-)\ (-)\ (-)$

$$-19x - 2y = -300$$

$$19x + 2y = 300$$

$$\Rightarrow 2y = 300 - 19x \Rightarrow y = \frac{300-19x}{2}$$

Let us assume $x = 12$

$$y = \frac{300 - 19(12)}{2} = 36$$

Sub x, y in (1)

$$(1) \Rightarrow x+y+z = 100$$

$$12+36+z = 100$$

$$z = 52$$

$x = 12$
$y = 36$
$z = 52$