

Correct. Let  $x$ ,  $y$ , and  $z$  be the amounts invested in the three accounts. Then

$$x + y + z = 1,600$$

$$5x = z \text{ or } 5x - z = 0$$

$$0.02x + 0.04y + 0.07z = 90$$

Multiply by 100 to get rid of the decimals:  $2x + 4y + 7z = 9,000$

Multiply the first by  $-4$  and add it to the new third:  $-2x + 3z = 2,600$

Multiply the second equation by 3 and add to the above:  $13x = 2,600$  or  $x = 200$

From the second equation:  $z = 1,000$  and from the first equation:  $y = 400$