

1)  $x + y = 10000$   
 $0.05x + 0.09y = 660$

$5x + 5y = 50000$   
 $5x + 9y = 66000$

$4y = 16000$   
 $y = \$4000$   
 $x + y = 10000$ ,  $x = \$6000$   $5x + 9y = 66000$

$4y = 16000$   
 $y = \$4000$   
Since  $x + y = 10000$ ,  $x = \$6000$

2)  $x$  = amount at 6%  
 $50000 - x$  = amount at 8%  
 $0.06x - 480 = 0.08(50000 - x) = 4000 - 0.08x$   
 $0.14x = 4480$   
 $x = \$32,000 * 6\% = \$1920$   
 $50,000 - x = \$18,000 * 8\% = \$1440$ , \$480 less than \$1920.

3) 1.5 multiplied by  $x + 4$  multiply by 4 multiply by  $x = 3500$   
 $x = 200$

4) 1.5 multiply by  $x = 1500$   
 $x = 1000$

5)  $2475 = x$  multiply by 0.0825  
 $x = 3000$

**Commented [1]:** Good, ...and  $10,000 - x = 4000$ .

**Commented [2]:** Good work!

**Commented [3]:** Missing a zero.  $x = 30,000$