## HEIMADAMI 4

1.

Nafnverð = lookr Nafnvextir = 9% Ávöxtunarlerafa = 7% Markaðsverð = ?

n	greidsla	novirđi	
1	9	8,41	
2	9	7,86	
3	109	88,98	

Markadsuerd = 105,25 kr

2.

Höfuðstöll = lækr Vextir = 5% Áväxtunarkrafa = 2,5%

n	greiðsla	núvirði	
1	5	4,88	
2	5	4,76	
3	5	4,64	
4	105	95,12	

Markatsuerd = 109,40 kr

$$Medaltīmi = \frac{\left(\frac{1}{1+2.5\%} \times \frac{1}{109.40} \times \left(\frac{1\times5}{(1+2.5\%)^1} + \frac{2\times5}{(1+2.5\%)^2} + \frac{3\times5}{(1+2.5\%)^3} + \frac{4\times105}{(1+2.5\%)^4}\right)\right)}{2}$$

= 1,82

<u>n</u>	af borgun	Vextir	greiðsla	eftirstöðvar	núvirði
0				90000	
1	30000	9000	39000	60000	36111,11
2	30000	6000	36000	30000	30864,20
3	30000	3000	33000	0	26196,46

Medaltimi = 
$$\frac{1}{1+8\%} \times \frac{1}{93171,77} \times \left( \frac{1 \times 39000}{(1+8\%)^1} + \frac{2 \times 36000}{(1+8\%)^2} + \frac{3 \times 33000}{(1+8\%)^3} \right)$$
  
= 1.75

4.

Ävöxtunarkrafa: 
$$107 = \frac{6}{(1+\Gamma)^2} + \frac{6}{(1+\Gamma)^2} + \frac{106}{(1+\Gamma)^3}$$

n	greiðsla	núvirði
1	6	5,80
2	6	5,60
3	106	95,60

Medalfimi = 
$$\frac{1}{1+3.5\%} \times \frac{1}{107} \times \left( \frac{1\times6}{(1+3.5\%)^{1}} + \frac{2\times6}{(1+3.5\%)^{2}} + \frac{3\times106}{(1+3.5\%)^{3}} \right)$$
  
=  $\frac{2.74}{100}$