Warm-Up 1-18

Get your Alebra Nation book if it is at school.

1. Jake works for an insurance company. The company has two salary paths. Path 1 salary starts at 30,000 with a 7% increase each year. Path 2 salary starts at 40,000 but increases by 1500 each year.

　　a. Write a function to model both payment paths.

　　b. If you were Jake's financial advisor, what advice would you give him.

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1. Jake works for an insurance company. The company has two salary paths. Path 1 salary starts at 30,000 with a 7% increase each year. Path 2 salary starts at 40,000 but increases by 1500 each year. $7\% = 0.07$

   a. Write a function to model both payment paths.

   Path 1: $f(x) = 30,000(1 + 0.07)^x$ $f(x) = 30,000(1.07)^x$

   Path 2: $g(x) = 40,000 + 1500x$

   b. If you were Jake's financial advisor, what advice would you give him.

Path 1	
year	$
0	30,000
1	32,100
2	34,347
3	36,751
4	39,323
5	42,077
6	45,021
7	48,173
8	51,545
9	55,153
10	59,014

Path 2	
year	$
0	40,000
1	41,500
2	43,000
3	44,500
4	46,000
5	47,500
6	49,000
7	50,500
8	52,000
9	53,500
10	55,000

Quiz

Project Time!

Homework

Algebra Nation worksheet and
pg.167-171