For representations given in A-G, which ones help you to notice the structure of the expression? Be ready to share at least three statements your group agrees on. Note that these use 5% rather than 4%.

A.  B. 

C. D.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number of years | David |  | Number of years | David |
| 0 | 100 |  | 0 | 100 |
| 1 | 100(1+.05) |  | 1 | 100+.05(100)= 105 |
| 2 | 100(1+.05)2 |  | 2 | 105+.05(105)=110.25 |
| 3 | 100(1+.05)3 |  | 3 | 110.25 +.05(110.25)=115.76 |
| 4 | 100(1+.05)4 |  | 4 | 115.76+.05(115.76)=121.55 |
| 5 | 100(1+.05)5 |  | 5 | 121.55+.05(121.55)=127.63 |

E. F.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number of years | David | Shanna |  | Number of years | David |
| 0 | 100 | 100 |  | 0 | 100 |
| 1 | 105 | 95 |  | 1 | 100(1+.05) |
| 2 | 110.25 | 90.25 |  | 2 | [100(1+.05)](1+.05) |
| 3 | 115.76 | 85.74 |  | 3 | [100(1+.05)(1+.05)](1+.05) |
| 4 | 121.55 | 81.45 |  | 4 | [100(1+.05)(1+.05)(1+.05)](1+.05) |
| 5 | 127.63 | 77.38 |  | 5 | [100(1+.05)(1+.05)(1+.05)(1+.05)](1+.05) |

G.

|  |  |
| --- | --- |
| Number of years | David |
| 0 | 100 |
| 1 | 100(1.05) |
| 2 | [100(1.05)](1.05) |
| 3 | [100(1.05)(1.05)](1.05) |
| 4 | [100(1.05)(1.05)(1.05)](1.05) |
| 5 | [100(1.05)(1.05)(1.05)(1.05)](1.05) |