18. Doris decided to start a stamp collection. She hopes to triple the total number of stamps that she has in her collection each year. If she has 3 stamps when she starts her collection, which sequence represents the number of stamps she wants to have in her collection each year?

A.   3, 9, 27, 54, 108, ...

B.   3, 9, 15, 21, 27, ...

C.   3, 6, 9, 12, 15, ...

D.   3, 9, 27, 81, 243, ...

19. A station wagon was purchased for $23,995 from a local dealership. Due to wear and tear, the value of the station wagon is expected to depreciate by 17% annually. If t represents the time, in years, since the station wagon was purchased, which of the following expressions describes the value of the station wagon t years after it was purchased?

A. $23,995 \cdot 0.17^t$

B. $23,995 \cdot 0.83^t$

C. $23,995^{0.17t}$

D. $23,995^{0.83t}$

20. In the geometric sequence shown below, a_n represents the nth term of the sequence.

a_n	Value
a_1	1
a_2	4
a_3	16
a_4	64
a_5	256

What is the recursive formula of the geometric sequence?

A. $a_n = (a_{n-1})^2$

B. $a_n = a_{n-1} + 3$

C. $a_n = 2a_{n-1}$

D. $a_n = 4a_{n-1}$