

Please select the correct answer number for each question. There are more answers than questions. Answers may be repeated.

1) **no**

2) **± 125**

3)

No; the sequence can be completed with 60 with a common ratio of 2.

4) **yes; 3**

5) **19,683**

6) **geometric; $\frac{1}{9}$, $\frac{1}{27}$**

7) **128**

8) **arithmetic; 17, 22**

9) **about 19.2 in.**

10) **$a_n = 3(-2)^{n-1}; 3, -6, 12,$
 $-24, 48$**

11) **± 8**

12) **$a_n = 9(2)^{n-1}; 9, 18, 36,$
 $72, 144$**

13) **1458**

14) about 2732

15) 6, 3, 1.5 or -6, 3, -1.5

16) $a_n = 2537(1.025)^{n-1}$