

WS: 14.1, 14.2 Extra Practice ANSWER KEY

1. 1440, 10080, 80640

2. $\frac{3}{64}, \frac{3}{128}, \frac{3}{256}$

3. -3, -18, -108, -648

4. 4, 16, 36, 64

5. 0.5, -1, 2, -4

6. 25, 125, 225, 325

7. $a_n = a_{n-1} \cdot n$
 $a_1 = -1$

8. $a_n = a_{n-1} \cdot \frac{2}{5}$
 $a_1 = 25$

9. 420

10. 171

11. $\sum_{n=1}^6 5^n$

12. $\sum_{n=1}^4 5n$

13. Neither

14. Geometric, $r = 3$

15. Arithmetic, $d = 2$

16. Geometric, $r = -2$

17. Arithmetic, $d = 10$, $a_n = -11 + 10(n-1)$, $a_{20} = 179$

18. Geometric, $r = -4$, $a_n = 3(-4)^{n-1}$, $a_{10} = -786432$

19. A) 349525 B) $n = 14$

20. A) 26 B) $n = 25$