

Practice

1.1

Name _____

In Exercises 1–8, describe the pattern. Then list the next 3 numbers.

1. 2, 6, 10, 14, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

2. 99, 88, 77, 66, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

3. 15625, 3125, 625, 125, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

4. 2, 10, 50, 250, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

5. $\frac{2}{3}$, $\frac{4}{3}$, $\frac{8}{3}$, $\frac{16}{3}$, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

6. $3\frac{9}{2}$, $6\frac{15}{2}$, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

7. $2\frac{3}{2}$, $\frac{4}{3}$, $\frac{5}{4}$, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

8. 5, 10, 30, 120, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

In Exercises 9–12, describe the pattern. Then list the next 3 letters.

9. D, H, L, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

10. C, F, I, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

11. Z, X, V, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

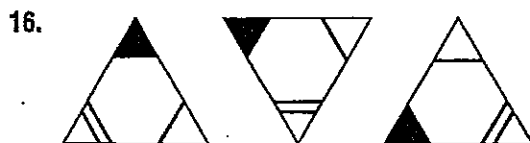
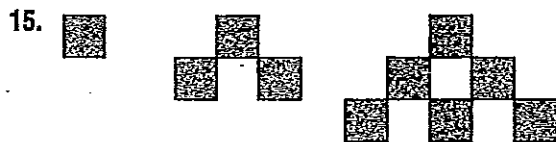
12. B, D, F, H, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$

In Exercises 13 and 14, write the first 6 numbers in the sequence.

13. The preceding number is 60. Each succeeding number is 6 less than the preceding number.

14. The first number is 2 and the second number is 4. Each succeeding number is the sum of the two preceding numbers.

In Exercises 15 and 16, draw the next 3 figures in the pattern.



17. The high and low temperatures recorded for a certain January day are 82°F in Tempe, Arizona and 12°F in Duluth, Minnesota, respectively. Explain what the numbers represent.

18. You and a friend both take a math examination. You score a 98 out of 100 points and your friend scores 96 out of 100 points. Who scored better? Explain.

19. You and your family are traveling to the beach for a vacation. You and your family fly in an airliner at an average speed of 375 mph. A friend of yours and her family are traveling to the same beach. They are driving at an average speed of 55 mph. Who gets to the beach first? Explain.

20. In Super Bowl XXVIII, the Dallas Cowboys defeated the Buffalo Bills by a score of 30–13. Explain what the numbers represent.