

Practice

1.1

Name Answer

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

1. 2, 6, 10, 14, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ Add 4

2. 99, 88, 77, 66, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ Subtract 11

3. 15625, 3125, 625, 125, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ Divide by 5

4. 2, 10, 50, 250, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ x by 5; 1250, 6250, 31250

5. $\frac{2}{3}, \frac{4}{3}, \frac{8}{3}, \frac{16}{3}, \boxed{?}, \boxed{?}, \boxed{?}$ x by 2; $\frac{32}{3}, \frac{64}{3}, \frac{128}{3}$

6. $3, \frac{9}{2}, 6, \frac{15}{2}, \boxed{?}, \boxed{?}, \boxed{?}$ Add $3/2$; 9, 21/2, 12

7. $2, \frac{3}{2}, \frac{4}{3}, \frac{5}{4}, \boxed{?}, \boxed{?}, \boxed{?}$ Add 1 to num & den; $\frac{6}{5}, \frac{7}{6}, \frac{8}{7}$

8. 5, 10, 30, 120, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ multiply by $n+2$ starting w/ $n=0$; 600, 3600, 25200

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

9. D, H, L, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ 4th letter of alph; P, T, X

10. C, F, I, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ Every 3rd letter of alph; L, O, R

11. Z, X, V, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ Every other letter starting w/2; T, R, P

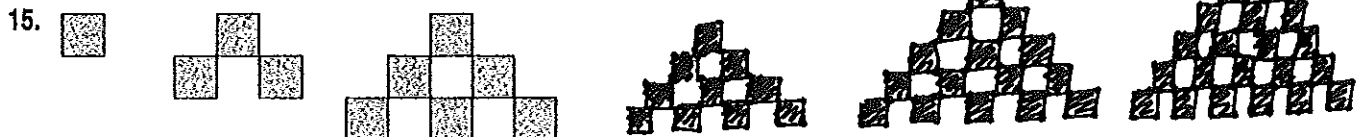
12. B, D, F, H, $\boxed{?}$, $\boxed{?}$, $\boxed{?}$ Every other letter starting w/ B; J, L, N

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. 60, 54, 48, 42, 36, 30

14. The first number is 2 and the second number is 4. Each succeeding number is the sum of the two preceding numbers. 2, 4, 6, 10, 16, 26

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. The larger the #, the warmer the temp. It was 70° warmer in Tempe than in ~~Arizona~~ Duluth.

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. The larger the number, the better the score, w/a 100 being perfect. Your score is better than your friend's by 2 pts.

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. The #s represent the speed in mph. The larger the #, the faster you are traveling. You will arrive sooner.

20. In Super Bowl XXVIII, the Dallas Cowboys defeated the Buffalo Bills by a score of 30-13. Explain what the numbers represent. #s represent points scored for a particular team. Dallas scored more than Buffalo, so Dallas won the game.