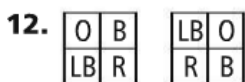


11. 31, 37



13. Answers may vary. Sample: any nonsquare rectangle

14. One meaning of *counter* is "against," so a counterexample is an example that goes against a statement.

16. Add 2, add 4, add 6, . . . ; 31, 43.

17. Add 1, then add 3; add 1, then add 3; . . . ; 10, 13.

18. Divide the previous number by 10; 0.0001, 0.00001.

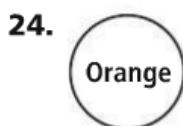
19. Multiply by 3, add 1; multiply by 3, add 1; . . . ; 201, 202.

20. Add 2, add 4, add 8, add 16, . . . ; 63, 127.

21. Add $\frac{1}{2}$, add $\frac{1}{4}$, add $\frac{1}{8}$. . . ; $\frac{31}{32}$, $\frac{63}{64}$.

22. 555,555,555

23. 123,454,321



27. 102 cm

28. H; the rest of the points form the shape of a heart.

15. In the pattern 2, 4, . . . , the next term is 6 if the rule is "add 2"; the next term is 8 if the rule is "double the previous term"; and the next term is 7 if the rule is "add 2, then add 3, then add 4, . . . Just giving the first 2 terms does not give enough information to describe the pattern.