INVESTIGATION ANSWERS

Pattern Recognition:

1 67, 73, 79, arithmetic

2 32, 64, 128, geometric

3 42, 40, 38, arithmetic

4 162, 486, 1458, geometric

5 $63; $71; $79; arithmetic

6 100; 200; 400; geometric

7 5, 9, 4

8 3, 6, 5

9 B, U, L

10 U, L, B

11 4, 4, 5, 5; a sequence of the counting numbers that increases by 1 and with each number recorded twice

12 8, 0, 10, 0; The terms alternate between 0s and the positive even numbers. The positive even numbers increase by 2.

13 J, K, M, N; the letters of the alphabet, skipping every third letter

14 ⊣, ⊥, ⊢, the uppercase letter T, starting upright and rotating 90° clockwise for each term of the sequence

15 1, 2, 3, 4, 5; These are the counting numbers 1, 2; followed by 1, 2, 3; followed by 1, 2, 3, 4; and so on.

16 36, 49, 64

17 17, 23, 30

18 13, 21, 34; 32 quarts

19 C

20 11

21 Multiply the hours worked by 8 dollars.

22 $200

23 1095 miles in a year; 9, 15, 24