

Find the next three terms of the sequence. Then describe in words the pattern of the sequence.

1. 4, 10, 16, 22, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_. The pattern is: \_\_\_\_\_

2. 9, -1, -11, -21, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_. The pattern is: \_\_\_\_\_

3. 3, 2,  $\frac{4}{3}$ ,  $\frac{8}{9}$ , \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_. The pattern is: \_\_\_\_\_

4. 2, 6, 18, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_. The pattern is: \_\_\_\_\_

5. (challenge) 4, 8, 12, 20, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_. The pattern is: \_\_\_\_\_

6. Which of the sequences below is out of place? Explain your reasoning.

- a. 1, 9, 17, 25, ...      b. -3, -6, -9, -12, ...      c. 100, 50, 25, ...      d. 20, 30, 40, 50, ...

7. Which of the sequences below is out of place? Explain your reasoning.

- a. 3, 10, 101, 10202, ...      b. 2, -4, 8, -16, ...      c. 1, 4, 16, 64, ...      d. 300, 100, 33.3, ...

*Review from Math 1 and 2*

8. List the first 4 terms of the sequence

START: 5

NEXT = 7NOW

9. List the first 4 terms of the sequence

START: 9

NEXT = NOW - 3

10. Each day Theo receives five dollars for walking his neighbor's dog. If he currently has \$10 in his wallet, how much will he have after 3 weeks of dog walking?



11. Ashley received \$25 for her good grades on her report card.

If she invests this money into an account that pays her 1% per week, estimate how much money she will have after 1 year.