

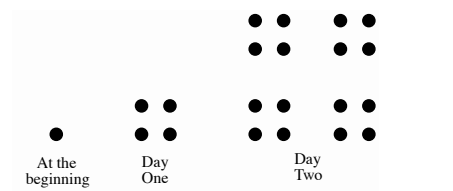
MATH ONE-Release Items

1. If the point $A = (-4, 8)$ and is rotated 90° clockwise about the point $(0, 0)$, then $A' =$

- a. $(4, 8)$ b. $(-4, -8)$ c. $(4, -8)$ d. $(8, 4)$

2. The point $(-4, 6)$ is a solution to which of the following system(s)? (Select all that apply.)

- a. $\begin{cases} x + 2y = 8 \\ -4x - y = 10 \end{cases}$ b. $\begin{cases} x + 2y \leq 8 \\ -4x - y < 10 \end{cases}$ c. $\begin{cases} x + 2y < 8 \\ -4x - y \geq 10 \end{cases}$
- d. $\begin{cases} x + 2y \geq 8 \\ -4x - y \leq 10 \end{cases}$ e. $\begin{cases} x + 2y > 8 \\ -4x - y > 10 \end{cases}$



3. The explicit function for the sequence above is:

- a. $f(x) = 3x + 1$ b. $f(x) = 1 \cdot 4^x$
- c. $f(x) = 4x - 3$ d. $f(x) = \frac{1}{4} \cdot 4^x$

4. Which explicit function best matches the recursive function:

$$f(1) = -4, f(x) = f(x - 1) + 4?$$

- a. $f(x) = -4x + 4$ b. $f(x) = 4x$
- c. $f(x) = 4x - 4$ d. $f(x) = 4x - 8$

Match each equation on the left with its rate of change on the right.

5. $f(x) = -4x + 3$ a. $-\frac{3}{4}$
6. $3x + 4y = -12$ b. -4
7. $f(x) = 4 \cdot 3^x$ c. 4
8. $y = 4(x - 3) + 12$ d. No constant rate of change

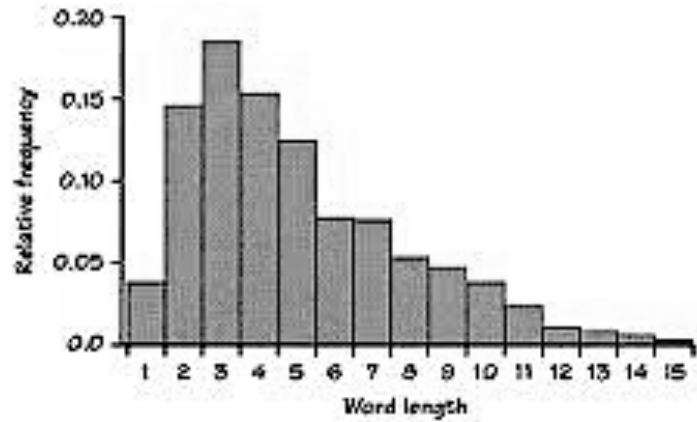
9. On a graph, the equation $f(x) = g(x) - 6$ would mean that

- a. $f(x)$ would be shifted up 6 units from $g(x)$ b. $f(x)$ would be shifted down 6 units from $g(x)$
- c. $f(x)$ would be shifted left 6 units from $g(x)$ d. $f(x)$ would be shifted right 6 units from $g(x)$

10. If the point $A = (-4, 8)$ and is rotated 90° counter-clockwise about the point $(0, 0)$, then $A' =$
- a. $(4, 8)$ b. $(-4, -8)$ c. $(4, -8)$ d. $(-8, -4)$

45. The graph to the right represents:

- a. Unimodal Data
 b. Bimodal Data
 c. Multimodal Data
 d. Uniform Data



46. The graph to the right also represents:

- a. Left Skewed Data
 b. Right Skewed Data
 c. Normal Data
 d. None of the above