Sample Questions

Verbal:

Directions: Choose the best synonym for the following words.

1) decline
   A. mountain
   B. discipline
   C. hill
   D. descent
   E. slope

Directions: Choose the best antonym for the following words.

1) belief
   A. doubt
   B. credence
   C. security
   D. devotion
   E. tension

Mathematics:

The number $a$ is directly proportional to $b$. If $a = 15$ when $b = 24$, what is the value of $b$ when $a = 5$?

a. $\frac{8}{5}$

b. $\frac{25}{8}$

c. 8

d. 14

e. 72
Q: The number of cells in a certain lab experiment triples every hour. If there are 5 cells in the culture initially, then what is the number of cells in the culture after 4 hours?

(A) 15
(B) 20
(C) 135
(D) 405
(E) 1,875

The point (2,1) is the midpoint of a line with endpoints at (-5,3) and
a. (-3,4).
b. (-7,2).
c. (7,1).
d. (9,-1).
e. (-10,3).

If \( \frac{1}{3}y + 9 = 0 \), then \( y = \)

(A) -27
(B) -9
(C) -3
(D) 3
(E) 27

If the circumference of circle A is twice that of circle B, then \( \frac{\text{Area of circle A}}{\text{Area of Circle B}} \)

(A) \( \frac{1}{2} \)
(B) 2
(C) 4
(D) 2\pi

Analytical:

1.
2. Paint, brush, thread, dress, scissors, pen, pencil, needle.

3. Telephone, letter, airplane, bus, television, kite, child, man, worm, scorpion, butterfly, spider.