

The density  $d$  of an object is found by dividing the mass  $m$  of the object by its volume  $V$ . Which of the following equations gives the mass  $m$  in terms of  $d$  and  $V$  ?

A)  $m = dV$

B)  $m = \frac{d}{V}$

C)  $m = \frac{V}{d}$

D)  $m = V + d$

Between 1497 and 1500, Amerigo Vespucci embarked on two voyages to the New World. According to Vespucci's letters, the first voyage lasted 43 days longer than the second voyage, and the two voyages combined lasted a total of 1,003 days. How many days did the second voyage last?

- A) 460
- B) 480
- C) 520
- D) 540

$$-2x + 3y = 6$$

In the  $xy$ -plane, the graph of which of the following equations is perpendicular to the graph of the equation above?

- A)  $3x + 2y = 6$
- B)  $3x + 4y = 6$
- C)  $2x + 4y = 6$
- D)  $2x + 6y = 3$