



### TABE 11 & 12 MATHEMATICS PRACTICE ITEMS

**1. THE TWO LEGS OF A RIGHT TRIANGLE ARE 6 FEET AND 8 FEET LONG.**

**What is the Perimeter of the triangle?**

- A. 10 feet
- B. 20 feet
- C. 24 feet
- D. 28 feet

**2. A COMMUNITY ATHLETIC CLUB HOLDS AN ELECTION TO SELECT A PRESIDENT AND VICE PRESIDENT. THE NOMINATIONS FOR SELECTION INCLUDE 4 FEMALES AND 3 MALES.**

**What is the probability that a female is elected president and a male is selected vice president?**

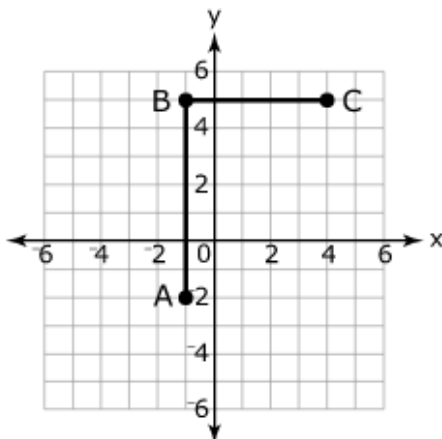
- A.  $\frac{1}{2}$
- B.  $\frac{12}{49}$
- C.  $\frac{2}{7}$
- D.  $\frac{7}{12}$

**3. An escalator moves at a rate of 2 feet per hour. At what rate does the escalator move in miles per hour?**

**5,280 feet = 1 mile**

- A. 0.02 miles per hour
- B. 0.34 miles per hour
- C. 0.68 miles per hour
- D. 1.36 miles per hour

**4. Simon plots a cycling route on a map. Each unit represents a kilometer.**



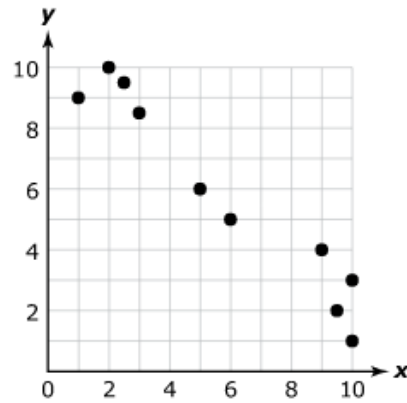
**What is the total length in Kilometers, of the route?**

- A. 6 kilometers.
- B. 7 kilometers.
- C. 8 kilometers.
- D. 12 kilometers.

4. LOOK AT THE SCATTER PLOT AT RIGHT.

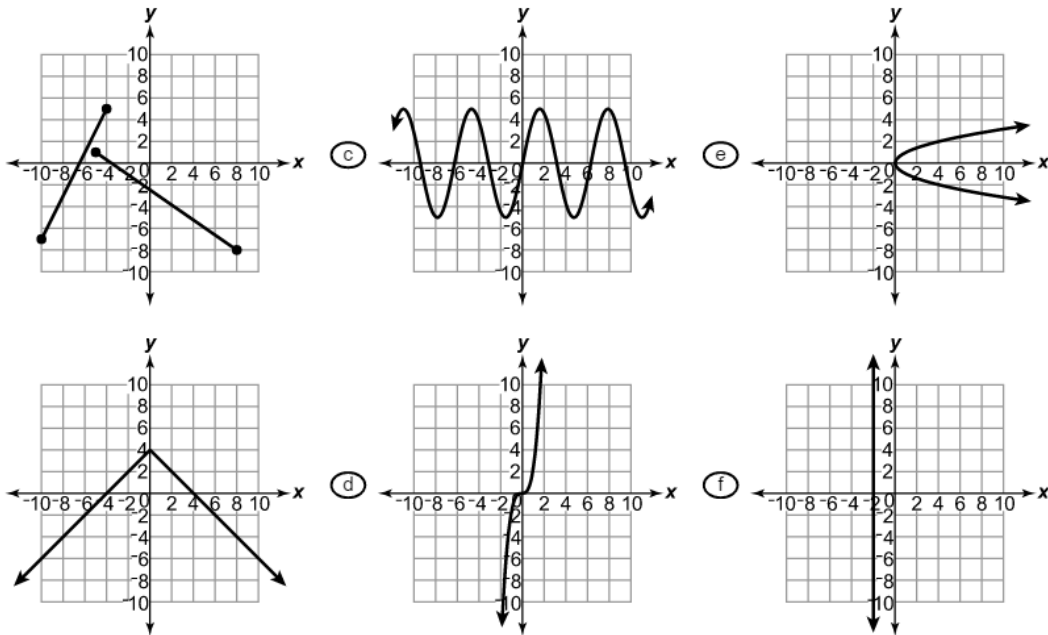
Which type of pattern is displayed in this scatter plot?

- A. a linear positive association with outliers.
- B. a linear negative association with clustering.
- C. a linear negative association with no outliers.
- D. a linear positive association with clustering.



5. LOOK AT THE GRAPHS.

Which graphs represent a function? Select the three that apply.



6. Make each equation equal to  $10x+11$ . Drag the file into each box to construct your answer.

?

Expression A:  $3(\square + 4) + x - 1$

Expression B:  $\square(6x + 5) - 2x + 1$

Expression C:  $7(\square + 2) + 3x - \square$

**x**
**2x**
**3x**
**1**
**2**
**3**