

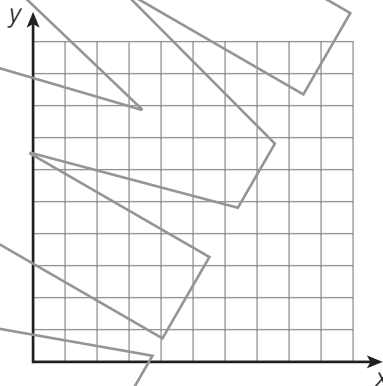
- 12 This table shows the number of hours some piano students practiced one month and the number of new songs they learned.

PIANO STUDENTS' PRACTICE TIMES

Hours Practiced	Number of New Songs Learned
5	1
7	1
25	5
37	7
18	4
22	4
12	2
36	9
42	10
45	8
30	7
8	2
30	6
43	8

Part A

Use this coordinate plane to create a scatter plot to show the data in the table.



Part B

Write an equation to describe the line of best fit for this scatter plot. Write your answer in the space provided. Write **only** your equation.

GO ON →

Part C

What does the y -intercept of the line of best fit mean?

- A** A student who practices 5 hours a month will learn about 1 new song a month.
- B** A student who practices 0 hours a month will learn 0 new songs a month.
- C** As the number of hours practiced each month increases, the number of new songs the student learns increases.
- D** As the number of hours practiced each month increases, the number of new songs the student learns stays the same.

Part D

About how many new songs would a student who practices 20 hours a month be expected to learn? Write your answer in the box.

new songs

- 13** Line p goes through the origin and contains the point $(-2, -5)$.

Which equation represents line p ?

- A** $y = -2x - 5$
- B** $y = -5x - 2$
- C** $y = \frac{2}{5}x$
- D** $y = \frac{5}{2}x$

GO ON →

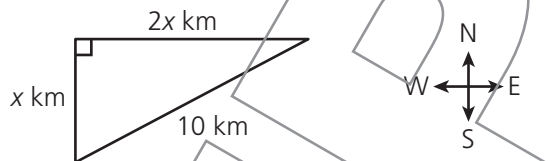
25 Students at Broadview Middle School will take a field trip to a baseball stadium. The total cost of the field trip includes a one-time transportation fee as well as the cost of each person's ticket to enter the stadium. Each ticket to the stadium costs the same amount.

- If 20 people go on the trip, the total cost would be \$1,300.
- If 40 people go on the trip, the total cost would be \$1,800.

Circle an option from each set to correctly complete the statement.

Each stadium ticket costs and the transportation fee is .

26 Katya hiked due north for 1 hour, then due east at the same pace for 2 hours. Then she hiked 10 kilometers straight back to her starting point.



Part A

To the nearest hundredth of a kilometer, how far north did Katya hike in the first hour? Write your answer in the box.

kilometers

Part B

To the nearest hundredth of a kilometer, what was the total distance that Katya hiked? Write your answer in the box.

kilometers

GO ON →