

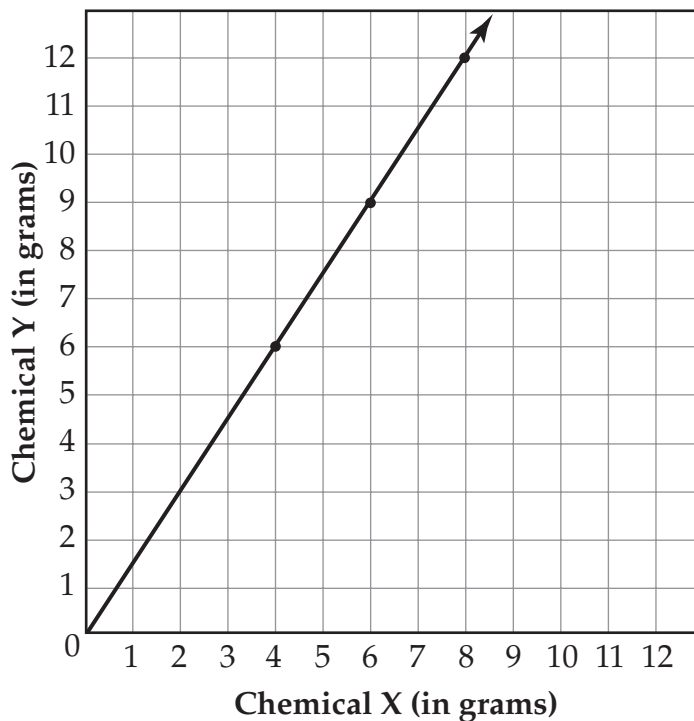
- 2** In Ms. Porter’s science class, students were given the table below describing the amounts of two chemicals, chemical X and chemical Y, in an experiment.

SCIENCE EXPERIMENT

Chemical X (in grams)	Chemical Y (in grams)
4	6
6	9
8	12

The students were asked to graph the information in the table and then write an equation describing the graph. Larry’s graph and equation are shown below.

SCIENCE EXPERIMENT



Larry’s equation: $y = \frac{2}{3}x$

Go On

Session 3

Did Larry graph the information in the table correctly? On the lines below, explain your answer.

Did Larry write a correct equation? On the lines below, explain your answer.

Session 4: Mathematics



Since you may receive partial credit for many of the problems, it is important to show ALL work in the spaces provided in this book. When you see the words **Show All Work**, be sure to

- show all the steps needed to solve the problem
- make your handwriting clear and easy to read
- write the answer on the answer line

- 1** The Omnibus Publishing Company is shipping copies of its new almanac to bookstores. The almanac measures 8 inches by 6 inches by 2 inches. The almanacs are shipped in boxes that measure 8 inches by 12 inches by 16 inches. What is the maximum number of almanacs that can fit in one box?

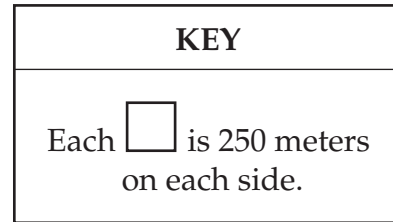
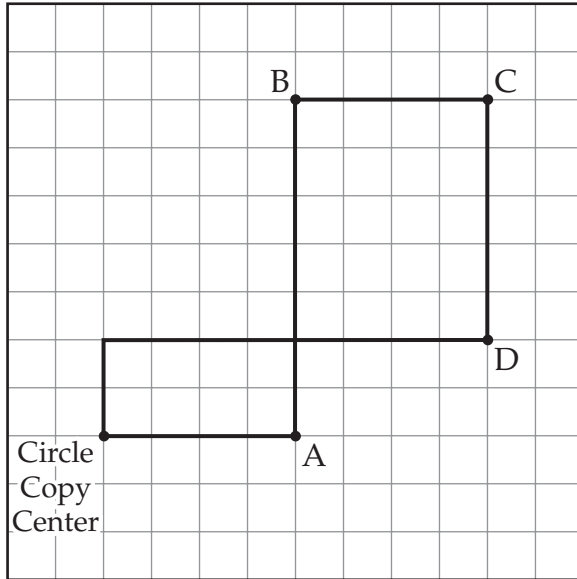
Show All Work

Answer _____ almanacs

Go On 

2

The map below shows Tom's daily pickup and delivery route for Circle Copy Center.



Tom drives from Circle Copy Center to each of the 4 stops (A, B, C, D), then back to Circle Copy Center along the route shown in the map. What is the distance per week, in KILOMETERS, that Tom drives on his route if he drives his route twice a day and works 5 days a week?

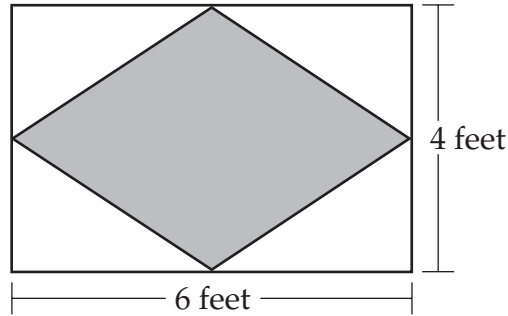
Show All Work

Answer _____ kilometers

Go On 

3

Kendra designed the rectangular flag shown below for a school contest.



The corners of the gray polygon are at the midpoint of each side of the white rectangle. On the lines below, describe how Kendra can determine the area, in square feet, of the gray polygon without measuring the sides.

Now use the method you described to solve the problem. Write your answer on the line below.

Show All Work

Answer _____ square feet

Go On