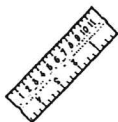Use only a Number 2 pencil to respond to the questions in this book. Responses written in pen CANNOT be scored.

If you see this symbol, use your ruler to solve the problem.

If you see this symbol, use your protractor to solve the problem.

Test 7: 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 Look at the clock below.
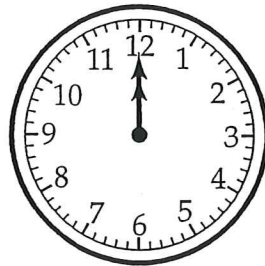
What number will the hour hand point to if it is rotated clockwise $\frac{3}{4}$ of a turn?

Answer _____

How many degrees is $\frac{3}{4}$ of a turn?

Answer _____ °

Go On

2 Mary wants to build a fence around her new pool. The fence will enclose a rectangle that measures 50 feet long and 20 feet wide.

What length of fencing, in feet, will Mary need?
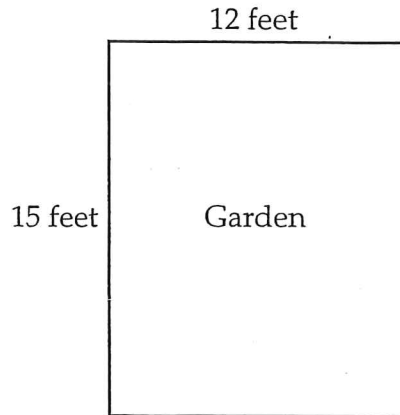
Show All Work

Answer _____ feet

Go On

3 Look at the numbers below.

$$3.5, \quad 1\frac{1}{4}, \quad 4\frac{3}{4}, \quad 2.5, \quad \frac{1}{2}$$

Plot the point for each of these numbers on the number line below. Write the number below each point.

Go On

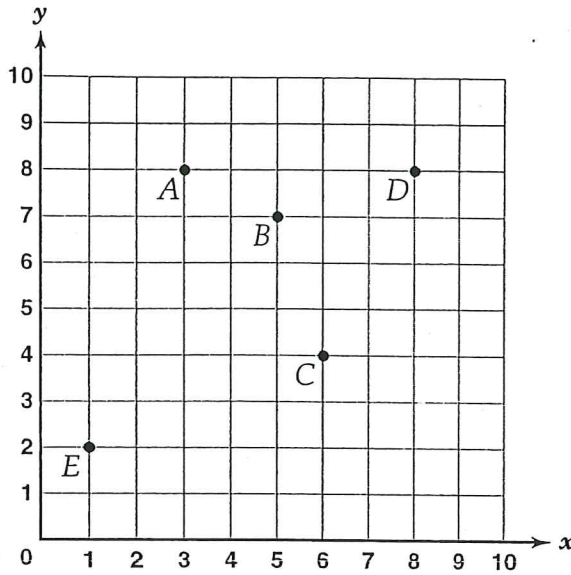4 Look at the diagram of Gina's rectangular garden below.

12 feet

15 feet   Garden

Area of rectangle = lw
= length × width

Gina has 52 flowers. She wants to plant 2 flowers in every square foot. On the lines below, explain if she has enough space for all of the flowers. Be sure to include the area of the garden in your explanation.

_____

_____

_____

_____

Go On

5 Look at the grid below.

On the lines below, write the ordered pair for each point on the grid.

A (——, ——)

B (——, ——)

C (——, ——)

D (——, ——)

E (——, ——)

Go On

6 Look at the triangles below.
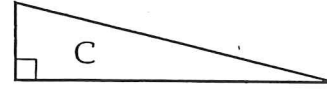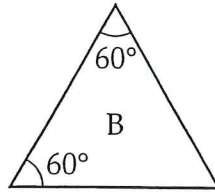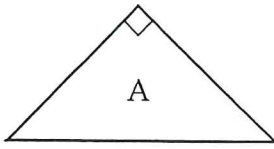
On the lines below, classify each triangle as either an equilateral, an isosceles, or a scalene triangle.

Triangle A _____

Triangle B _____

Triangle C _____

Go On

7 At the laundromat, $4 is required to wash four loads of clothes. It costs $5 to dry four loads of clothes. Jim needs to wash and dry ONE load of clothes. How much money does he need?

Show All Work

Answer $ _____

Test 8: 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 A local radio station had 50 people qualify to win a pair of tickets to a concert. Greg and his sister were two of the 50 who qualified to win the tickets. What is the probability that either Greg or his sister will win the tickets?
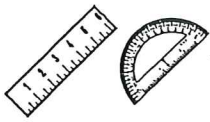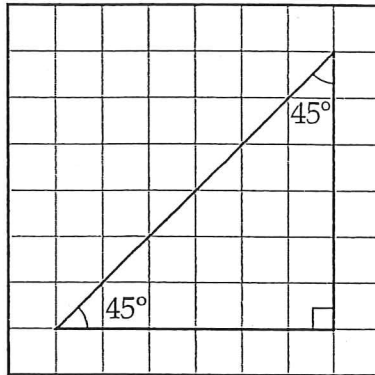
Show All Work

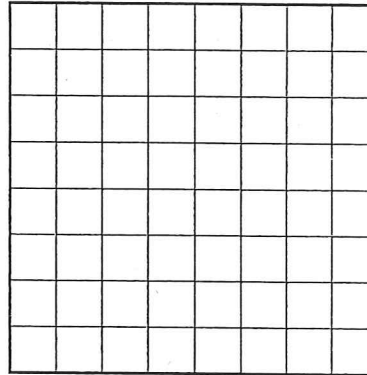*Answer* _____

Go On

2 Use your ruler and protractor to solve this problem.

Look at the triangle on Grid 1 below. Draw a triangle on Grid 2 that is congruent to the triangle on Grid 1.
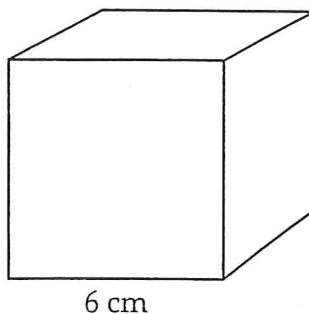
Grid 1

Grid 2

45°

45°

3 Three sisters are going to buy a Mother's Day present for $49.99, including tax. Each sister will pay an equal share. They estimate that each sister will pay $25.00. On the lines below, use words or symbols to explain if the estimate is accurate.

_____

_____

_____

_____

Go On

4 Look at the diagram of a cube below.

6 cm

What is the volume, in cubic centimeters, of the cube?

Volume of rectangular prism = lwh
= length × width × height

Show All Work

Answer _____ cubic centimeters

Go On

5 Look at the equation below.

$$y = 2x + 2$$

Use the equation to complete the table of ordered pairs below.

x	y
0	
1	
2	

On the coordinate plane below, plot the ordered pairs from the table and draw the line that passes through the points.
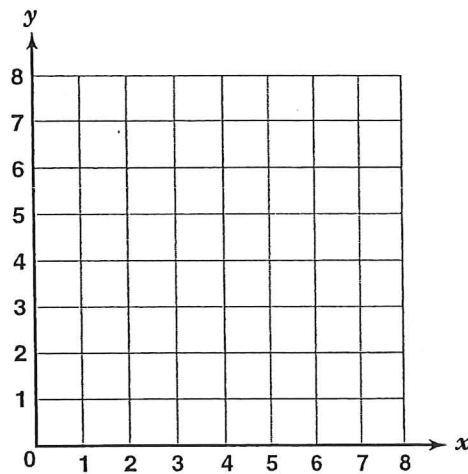
Go On

6 Bayview School is having their Spring Talent Show on 5 different nights. The tickets for each night cost $3.00 for adults and $1.00 for children. The auditorium holds 500 people.

The Brown family has 2 adults and 3 children. Find the total cost for the Brown family for one night. Use the expression $2x + 3y$ when $x = \$3.00$ and $y = \$1.00$. Write your answer on the line below.

Show All Work

Answer $ _____

On the lines below, explain what information about the Spring Talent Show is unnecessary when finding your answer.

_____

_____

_____

_____

Go On

7 The cost, c, in dollars, to mail a package weighing p pounds is shown in the formula below.

$$c = 2p$$

Using the formula, how much will it cost to send a 5-pound package?

Show All Work

Answer $ _____

> ⚠ **ATTENTION!** Please do **not** leave your punchouts in this book.