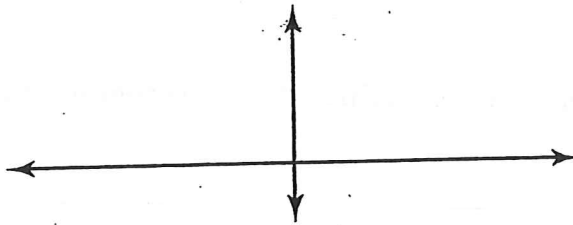


# Test 8: Mathematics

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 Look at the lines below.



Do the lines appear to be parallel, perpendicular, or oblique?

Answer \_\_\_\_\_

On the lines below, explain how you determined your answer.

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Go On 

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2 Look at the equation below.

$$y = x + 5$$

Complete the table below using the given values of  $x$  in the equation.

$x$	$y$
5	
6	
7	
8	
9	

On the lines below, explain how the values of  $y$  will change if the equation is changed to  $y = x + 8$ .

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Go On



- 3 It takes Sashi 40 minutes to arrive home from school if she rides the school bus. If her mother picks her up, it takes only 15 minutes.

At what time will Sashi arrive home if she rides a bus that leaves the school at 2:45 P.M.?

Answer \_\_\_\_\_ P.M.

How much time can Sashi save in 5 days if her mother picks her up?

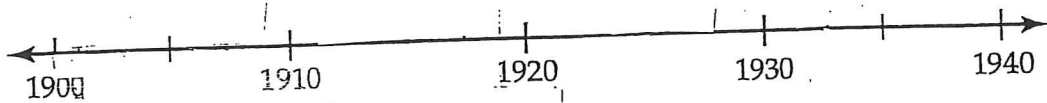
Show All Work

Answer \_\_\_\_\_

- 4 A librarian is organizing six journals by their copyright date. The copyright date for each journal is shown below.

1918 1901 1915 1907 1933 1925

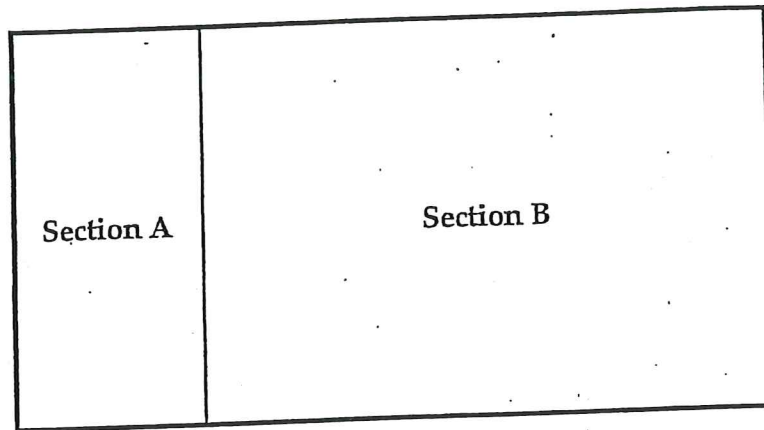
Plot the point for each of these numbers on the number line below. Write the number below each point.



Go On



5 Jenny painted her bedroom wall. A diagram of the wall is shown below.



It took Jenny 30 minutes to complete section A of the wall.

About how long will it take, in minutes, for her to finish section B?

Answer \_\_\_\_\_ minutes

On the lines below, explain how you found your answer.

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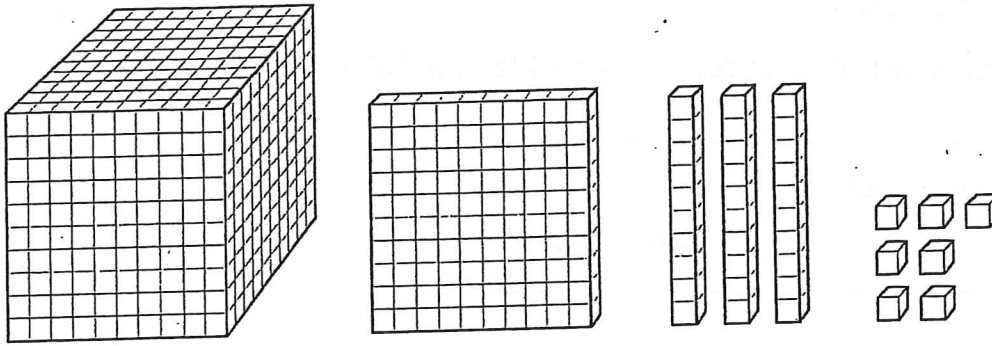


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Go On



6 Look at the place-value blocks below.



What number is represented by the place-value blocks?

Answer \_\_\_\_\_

Look at the place-value blocks below.



If these blocks are added to the first group of place-value blocks, what new number will be represented?

Answer \_\_\_\_\_



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



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**Session 1**

**2**

Chris wants to cover a bathroom floor that is 7 feet long and 5 feet wide. The tiles Chris is using are 1-foot squares and come in boxes of 12 tiles for \$34.80.

How much will it cost for Chris to tile the bathroom floor?

Area of rectangle =  $lw$   
= length  $\times$  width

**Show All Work**

Answer \$ \_\_\_\_\_

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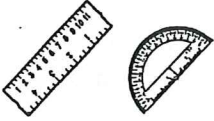
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# Session 1

3



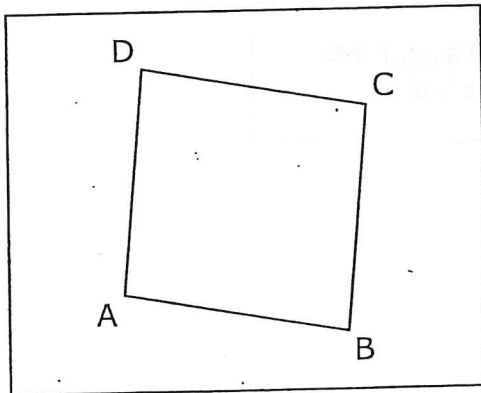
Use your ruler and protractor to solve this problem.

Bob and Tom followed the directions below to draw a figure.

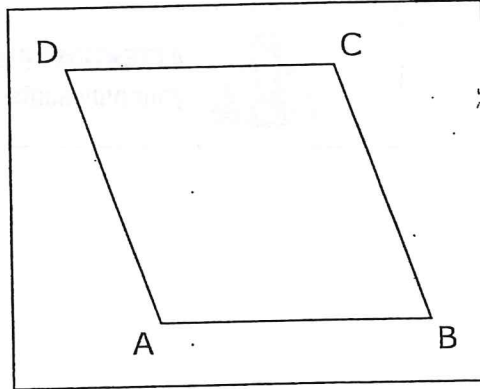
- Draw line segment AB that is  $1\frac{1}{2}$  inches long.
- From point B, draw line segment BC that is  $1\frac{1}{2}$  inches long and forms a  $70^\circ$  angle with line segment AB.
- From point C, draw line segment CD that is  $1\frac{1}{2}$  inches long and forms a  $110^\circ$  angle with line segment BC.
- From point D, draw line segment DA that is  $1\frac{1}{2}$  inches long and forms a  $70^\circ$  angle with line segment CD.

The figures Bob and Tom drew are shown below.

**Bob's Drawing**



**Tom's Drawing**



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Go On



**Session 1**

Use words, numbers, or symbols to explain who drew the figure INCORRECTLY. Be sure to use both angle and line measurements from the directions in your explanation.

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