| AP Computer Science                                    |                         | Name: |         |
|--|-------------------------|-------|---------|
|  | arel Chapter 1 Homework | Date: | Period: |
| 1. Which of the following directions can a robot face? |                         |       |         |
|  | A. northeast            |       |         |
|  | B. east                 |       |         |
|  | C. south-southwest      |       |         |
|  | D. north                |       |         |
|  | E. 164 degrees          |       |         |
|  | F. vertical             |       |         |
|  | G. down                 |       |         |

2. What things other than robots can be found in the robot world?

## Beepers, walls, avenues, streets

3. Which of the things listed in Problem 2 can a robot manipulate or change?

## **Beepers**

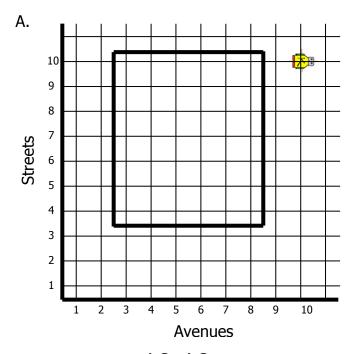
4. What reference points can be used in the robot world to describe a robot's exact location?

## Avenues, streets, direction

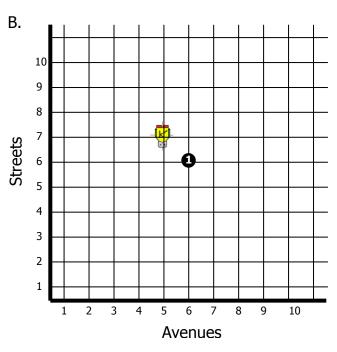
5. How many robots can we have in a given robot world?

## **Unlimited**

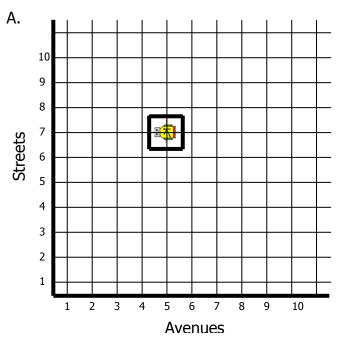
6. Give the absolute location of each robot in each of the worlds shown in the figures below.



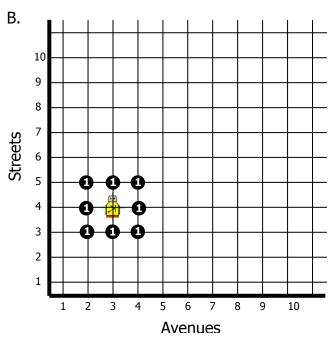
Location: 10,10, east



Location: 7,5, south



Location: 7,5, west



Location: 4,3, north