

### New Concepts

- Segments and Rays
- Between
- Congruence
- Midpoints & Bisectors
- Postulate

### Problem Set #3

*“I’ve missed 3000 shots. Twenty-six times the game-winning shot has been trusted to me, and I’ve missed. I’ve lost over 300 games. I’ve failed over and over and over again, and that is why I’ve succeeded.”*

- Michael Jordan

### New Postulates and Theorems

- Ruler Postulate
- Segment Addition Postulate (SAP)

### Exercises:

Read p. 11-13

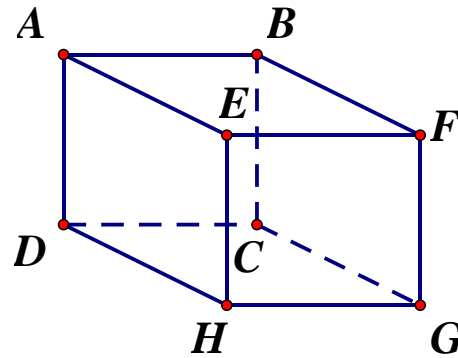
Written Exercises p.15 #1-39odd, 41-48

### Problems:

#### 3-1 The Plane Game

Points A through H are non-coplanar vertices of a box.

What are all of the unique segments that can be defined by those points?



#### 3-2 Lucky Number Seven

All of the positive integers that contain the digit ‘7’ are written out in increasing order.

7, 17, 27, 37, ....

What is the 10<sup>th</sup> number written?

The 100<sup>th</sup> number?

The 1000<sup>th</sup> number?