Answers to pages 164 - 171:

## Interpret <br> 1. How do you describe an object's position?

Answers will vary. Students should mention that position is described with a distance and direction from a given reference point.

## Distingulsh

4. Relate the concepts below to speed.

| Term | What it means |
| :--- | :--- |
| Speed | Distance an object <br> moves in a unit of time |
| Constant | When an object moves the <br> same distance over a given unit <br> Speed |
| of time |  |
| Changing | When the distance an object <br> movesinceases or decreases <br> over a given unit of time |
| Average | Total distance traveled divided <br> by the total time |
| Speed |  |

### 5.1 Review coomen 뭅 <br> Differentiate between the distance and displacement for an object that started at <br> point $A$ and traveled as shown to point $B$.

## Apply

2. Analyze the position in each description below. Note the distance, direction, and reference point. Then, in the space to the right, draw a diagram representing the description.

The park is 3 km west of the school.
distance $=3 \mathrm{~km}$
direction $=$ west
reference point $=$ school

A rock fell down from a 30 m-high cliff.
distance $=30 \mathrm{~m}$
direction $=$ down
reference point $=$ cliff



Distance: 24 units
Displacement: 2 units

