

# 1-2 Standardized Test Prep

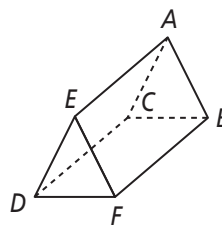
## Points, Lines, and Planes

### Multiple Choice

For Exercises 1–7, choose the correct letter.

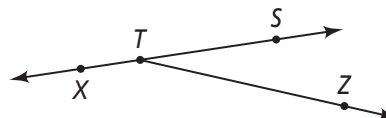
1. Look at the figure at the right. Where do planes  $ACE$  and  $BCD$  intersect?

- (A)  $\overleftrightarrow{AD}$                       (C)  $\overleftrightarrow{CB}$   
 (B)  $\overleftrightarrow{CD}$                       (D)  $\overleftrightarrow{BF}$



2. Which of the following are opposite rays?

- (F)  $\overrightarrow{TS}$  and  $\overrightarrow{XS}$                       (H)  $\overrightarrow{TS}$  and  $\overrightarrow{TZ}$   
 (G)  $\overrightarrow{TX}$  and  $\overrightarrow{TZ}$                       (I)  $\overrightarrow{TS}$  and  $\overrightarrow{TX}$



3. What is the smallest number of distinct points that can define a plane?

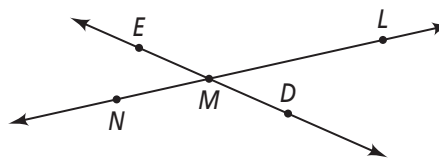
- (A) 2                      (B) 3                      (C) 4                      (D) infinite

4. At how many points can two distinct lines intersect?

- (F) 1                      (G) 2                      (H) 3                      (I) 4

5. In the figure at the right, which line is the same as  $\overleftrightarrow{ED}$ ?

- (A)  $\overleftrightarrow{ML}$                       (C)  $\overleftrightarrow{NL}$   
 (B)  $\overleftrightarrow{DM}$                       (D)  $\overleftrightarrow{MN}$



6. If two lines are coplanar, which of the following must be true?

- (F) The lines intersect.  
 (G) The lines never intersect.  
 (H) All points on the lines are coplanar.  
 (I) The lines share at least one point.

7. What is the intersection of two distinct, non-parallel planes?

- (A) a point                      (B) a line                      (C) a line segment                      (D) a ray

### Short Response

8. Point  $C$  does not lie on  $\overleftrightarrow{XY}$ . Can point  $C$  lie in the same plane as  $\overleftrightarrow{XY}$ ? Explain.