

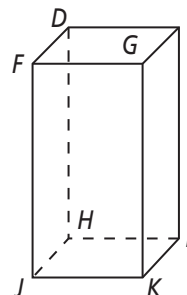
3-1 Standardized Test Prep

Lines and Angles

Multiple Choice

For Exercises 1–7, choose the correct letter.

For Exercises 1–3, use the figure at the right.



1. Which line segment is parallel to \overline{GE} ?

- (A) \overline{DH} (C) \overline{FG}
 (B) \overline{KI} (D) \overline{HI}

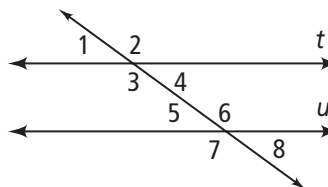
2. Which two line segments are skew?

- (F) \overline{DE} and \overline{GE} (H) \overline{EI} and \overline{GK}
 (G) \overline{GK} and \overline{DH} (I) \overline{HI} and \overline{DF}

3. Which line segment is parallel to plane $FGKJ$?

- (A) \overline{FD} (B) \overline{HI} (C) \overline{GE} (D) \overline{KI}

For Exercises 4–7, use the figure at the right.



4. Which is a pair of alternate interior angles?

- (F) $\angle 3$ and $\angle 6$ (H) $\angle 6$ and $\angle 5$
 (G) $\angle 2$ and $\angle 7$ (I) $\angle 4$ and $\angle 6$

5. Which angle corresponds to $\angle 7$?

- (A) $\angle 1$ (B) $\angle 3$ (C) $\angle 4$ (D) $\angle 6$

6. Which pair of angles are alternate exterior angles?

- (F) $\angle 1$ and $\angle 5$ (G) $\angle 3$ and $\angle 6$ (H) $\angle 5$ and $\angle 8$ (I) $\angle 1$ and $\angle 8$

7. Which pair of angles are same-side interior angles?

- (A) $\angle 1$ and $\angle 5$ (B) $\angle 3$ and $\angle 6$ (C) $\angle 4$ and $\angle 8$ (D) $\angle 3$ and $\angle 5$

Short Response

8. Describe the parallel planes, parallel lines, and skew lines in a cube.
 Draw a sketch to illustrate your answer.