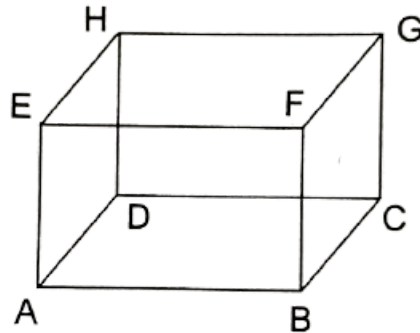


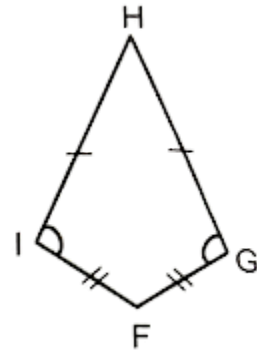
Geometry #6: Parallel, Perpendicular, and All That
Big Idea



1. Identify 3 segments parallel to \overline{EA} .
2. Identify 4 segments perpendicular to \overline{BC} .
3. Identify 4 segments skew to \overline{HD} .
4. Identify 1 plane parallel to plane EFG
5. Identify 4 planes perpendicular to plane

6. Which parts of the accompanying figure are congruent?

- (1) $\overline{HI} \cong \overline{HG}$, $\angle I \cong \angle G$, and $\angle H \cong \angle F$
- (2) $\overline{HI} \cong \overline{HG}$, $\overline{IF} \cong \overline{FG}$, and $\angle I \cong \angle G$
- (3) $\overline{HI} \cong \overline{IF}$, $\overline{HG} \cong \overline{FG}$, and $\angle I \cong \angle G$
- (4) $\overline{IF} \cong \overline{FG}$ and $\angle H \cong \angle F$



7. \overrightarrow{MN} and \overrightarrow{JK} intersect at point L . Which of the following is not true?

- (1) Points J , K , and M are collinear.
- (2) \overrightarrow{MN} and \overrightarrow{JK} are coplanar.
- (3) Points J , K , and L are collinear.
- (4) Points J , K , L , and M are coplanar.