

Geometry #6: Parallel, Perpendicular, and All That  
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8. Given points  $F$ ,  $G$ ,  $H$ , and  $I$  with no three of the points collinear, what is the maximum number of distinct lines that can be defined using points  $F$ ,  $G$ ,  $H$ , and  $I$ ?

- (1) 4
- (2) 5
- (3) 6
- (4) 8

9. Lines  $r$  and  $s$  intersect at point  $A$ . Line  $t$  intersects lines  $r$  and  $s$  at points  $B$  and  $C$ , respectively. Which of the following is true?

- (1) Lines  $r$ ,  $s$ , and  $t$  must all be perpendicular.
- (2) Line  $t$  must be skew to lines  $r$  and  $s$ .
- (3) Points  $A$ ,  $B$ , and  $C$  must be collinear.
- (4) Lines  $r$ ,  $s$ , and  $t$  must all be coplanar.