## 夾 TEST YOUR SKILLS

1 Complete using «always», «sometimes», or «never»:
«If a theorem is true, its converse is $\qquad$ true».

2 Five lines are concurrent at a point $P$. How many distinct pairs of vertical angles are formed at $P$ ?
(USA Southeast Missouri State University: Math Field Day, 2006)
3 TEST If $\hat{A}$ and $\hat{B}$ are supplementary, and $\hat{A}$ and $\hat{C}$ are complementary, then:
I. $\hat{A}<\hat{R}, \hat{B}>\hat{R}$, and $\hat{C}<\hat{R}$.
II. $\hat{A}<\hat{B}$ and $\hat{C}<\hat{R}$.
III. $\hat{A}>\hat{R}$ and $\hat{C}<\hat{B}$.

Which of the above statements is true?
(A) I only.
D II and III only.
II only.
E I and II only.

C III only.
(USA Northern State University: 50th Annual Mathematics Contest, 2003)

4 TEST Which of the following is true of a line but not true of a segment?
(A) Has exactly two end points.

B Is named by two end points.
(C) Has no end points.
(D) Has a midpoint.

E None of these answers.
(USA Northern State University: 48th Annual Mathematics Contest, 2001)
5 TEST Which of the following statements is true of a ray but not true of a segment?
(A) Can be named by two points.

Bxtends indefinitely in two directions.
(C) Has a definite length.
(D) Has two endpoints.

E Has only one endpoint.
(USA Northern State University: 50th Annual Mathematics Contest, 2003)

## GLOSSARY

angle: angolo
complementary: complementare
concurrent: incidente
converse: inverso
end point: estremo
length: lunghezza
line: retta
midpoint: punto medio
to name: determinare, designare
segment: segmento statement: proposizione
supplementary: supplementare theorem: teorema
vertical, vertically opposite: (angoli) opposti al vertice

