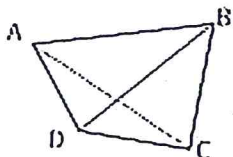Answer
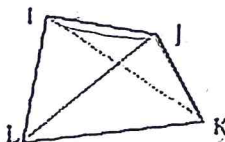
For these... choose the best answer.

1. Which choice below would ensure that quadrilateral ABCD is a rhombus?
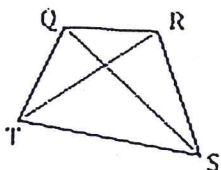
    A. $\overline{AB} \cong \overline{CD}$
    B. $\overline{AC} \cong \overline{BD}$
    C. $\overline{AB} \cong \overline{CD} \cong \overline{BC} \cong \overline{DA}$
    D. $\overline{AC} \perp \overline{BD}$

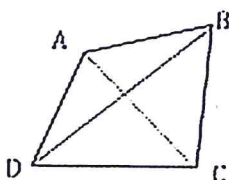3. Which choice below would ensure that quadrilateral IJKL is a trapezoid?

    A. $\overline{IJ} \cong \overline{JK}$
    B. $\overline{IJ} \parallel \overline{KL}$
    C. $\overline{IJ} \cong \overline{KL}$
    D. $\overline{KL} \cong \overline{LI}$

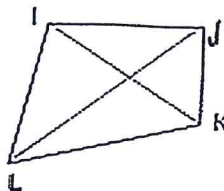5. Which choice below would ensure that quadrilateral QRST is a square?

    A. $\overline{QS} \cong \overline{RT}$
    B. $\overline{QS} \cong \overline{RT}, \overline{RT} \perp \overline{QS}, \overline{QS}$ and $\overline{RT}$ bisect each other
    C. $\overline{QR} \perp \overline{QT}, \overline{QR} \cong \overline{QT}$
    D. $\overline{QS}$ bisects $\overline{RT}$

7. Which choice below would ensure that quadrilateral ABCD is a rhombus?

    A. $\overline{AC} \cong \overline{BD}$
    B. $\overline{AC}$ bisects $\overline{BD}$
    C. $\overline{AC} \perp \overline{DB}, \overline{AC}$ and $\overline{BD}$ bisect each other
    D. None of these

9. Which choice below would ensure that quadrilateral IJKL is a kite?

    A. $\overline{IJ} \cong \overline{JK}, \overline{KL} \cong \overline{LI}$
    B. $\overline{IJ} \parallel \overline{KL}$
    C. $\overline{IK} \cong \overline{JL}, \overline{JK} \cong \overline{IL}$
    D. $\overline{KL} \cong \overline{LI}$

Bubble T for True and F for False.

1. A rectangle is also a parallelogram.

3. All parallelograms are also rhombi.

5. A parallelogram is also a trapezoid.

7. A rhombus is always a square.

9. All parallelograms are also squares.

11. A kite is always a rhombus.

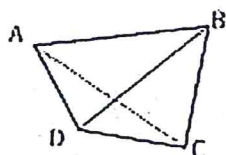13. A rectangle is both a parallelogram and a square.

15. All parallelograms are rectangles.

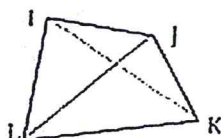17. If a figure is a trapezoid then it is a parallelogram.

For these... choose the best answer.

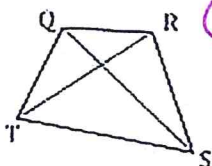1. Which choice below would ensure that quadrilateral ABCD is a rhombus?

   A. $\overline{AB} \cong \overline{CD}$
   B. $\overline{AC} \cong \overline{BD}$
   C. $\overline{AB} \cong \overline{CD} \cong \overline{BC} \cong \overline{DA}$ *(circled)*
   D. $\overline{AC} \perp \overline{BD}$

3. Which choice below would ensure that quadrilateral IJKL is a trapezoid?
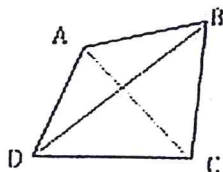
   A. $\overline{IJ} \cong \overline{JK}$
   B. $\overline{IJ} \parallel \overline{KL}$ *(circled)*
   C. $\overline{IJ} \cong \overline{KL}$
   D. $\overline{KL} \cong \overline{LI}$

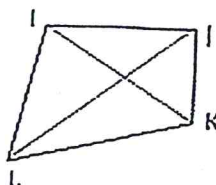5. Which choice below would ensure that quadrilateral QRST is a square?

   A. $\overline{QS} \cong \overline{RT}$
   B. $\overline{QS} \cong \overline{RT}$, $\overline{RT} \perp \overline{QS}$, $\overline{QS}$ and $\overline{RT}$ bisect each other *(circled)*
   C. $\overline{QR} \perp \overline{QT}$, $\overline{QR} \cong \overline{QT}$
   D. $\overline{QS}$ bisects $\overline{RT}$

7. Which choice below would ensure that quadrilateral ABCD is a rhombus?

   A. $\overline{AC} \cong \overline{BD}$
   B. $\overline{AC}$ bisects $\overline{BD}$
   C. $\overline{AC} \perp \overline{DB}$, $\overline{AC}$ and $\overline{BD}$ bisect each other *(circled)*
   D. None of these

9. Which choice below would ensure that quadrilateral IJKL is a kite?

   A. $\overline{IJ} \cong \overline{JK}$, $\overline{KL} \cong \overline{LI}$ *(circled)*
   B. $\overline{IJ} \parallel \overline{KL}$
   C. $\overline{IK} \cong \overline{JL}$, $\overline{JK} \cong \overline{IL}$
   D. $\overline{KL} \cong \overline{LI}$

I.

Bubble T for True and F for False.

1. A rectangle is also a parallelogram.

   True

3. All parallelograms are also rhombi.

   False

5. A parallelogram is also a trapezoid.

   False

7. A rhombus is always a square.

   False

9. All parallelograms are also squares.

   False

11. A kite is always a rhombus.

    False

13. A rectangle is both a parallelogram and a square.

    False

15. All parallelograms are rectangles.

    False

17. If a figure is a trapezoid then it is a parallelogram.

    False