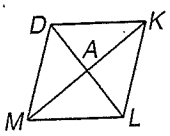
NAME _____ DATE _____ PERIOD _____

6-5 Skills Practice

Rhombi and Squares

Use rhombus $DKLM$ with $AM = 4x$, $AK = 5x - 3$, and $DL = 10$.



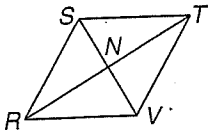
1. Find x.

2. Find AL.

3. Find $m\angle KAL$.

4. Find DM.

Use rhombus $RSTV$ with $RS = 5y + 2$, $ST = 3y + 6$, and $NV = 6$.



5. Find y.

6. Find TV.

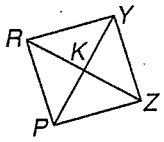
7. Find $m\angle NTV$.

8. Find $m\angle SVT$.

9. Find $m\angle RST$.

10. Find $m\angle SRV$.

Use rhombus $PRYZ$ with $RK = 4y + 1$, $ZK = 7y - 14$, $PK = 3x - 1$, and $YK = 2x + 6$.



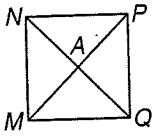
1. Find PY.

2. Find RZ.

3. Find RY.

4. Find $m\angle YKZ$.

Use rhombus $MNPQ$ with $PQ = 3\sqrt{2}$, $PA = 4x - 1$, and $AM = 9x - 6$.



5. Find AQ.

6. Find $m\angle APQ$.

7. Find $m\angle MNP$.

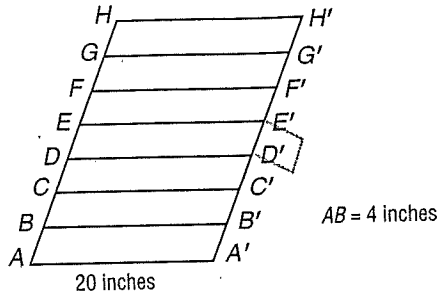
8. Find PM.

NAME _____ DATE _____ PERIOD ____

6-5 Word Problem Practice

Rhombi and Squares

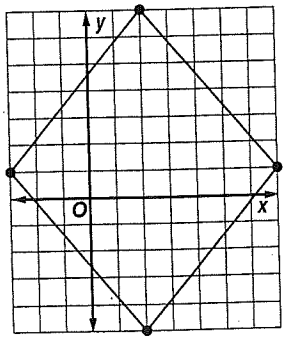
1. TRAY RACKS A tray rack looks like a parallelogram from the side. The levels for the trays are evenly spaced.



What two labeled points form a rhombus with base AA'?

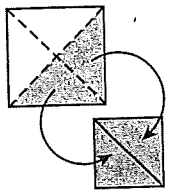
2. SLICING Charles cuts a rhombus along both diagonals. He ends up with four congruent triangles. Classify these triangles as acute, obtuse, or right.

3. WINDOWS The edges of a window are drawn in the coordinate plane.



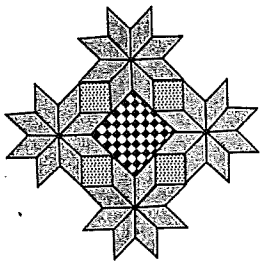
Determine whether the window is a square or a rhombus.

4. SQUARES Mackenzie cut a square along its diagonals to get four congruent right triangles. She then joined two of them along their long sides. Show that the resulting shape is a square.



DESIGN For Exercises 5 and 6, use the following information.

Tatianna made the design shown. She used 32 congruent rhombi to create the flower-like design at each corner.



5. What are the angles of the corner rhombi?

6. What kinds of quadrilaterals are the dotted and checkered figures?

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