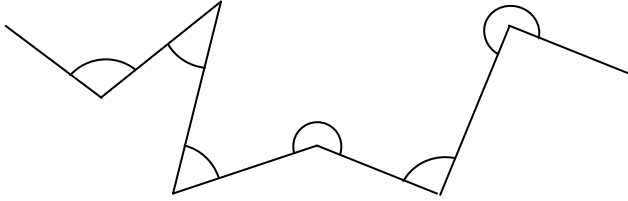
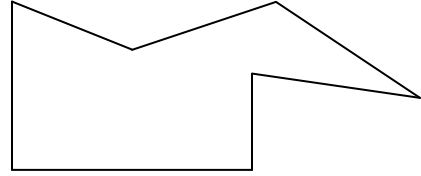


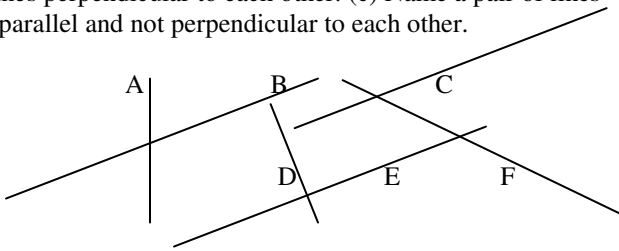
1. Label the angle with letter A if it is less than a right angle. Label it with letter O if it is greater than a right angle. Label it with letter R if it is a right angle.



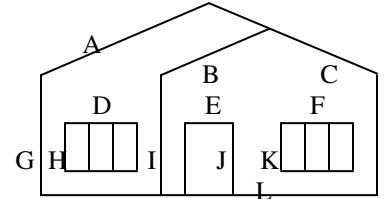
2. There are seven angles **inside** the shape. Label the angle with letter A if it is less than a right angle. Label it with letter O if it is greater than a right angle. Label it with letter R if it is a right angle.



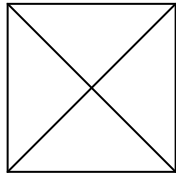
3. The lines shown below are labeled with capital letters. (a) Name a pair of lines parallel to each other. (b) Name a pair of lines perpendicular to each other. (c) Name a pair of lines not parallel and not perpendicular to each other.



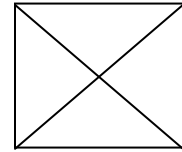
4. The lines in the drawing below are labeled with capital letters. (a) Name two pairs of lines parallel to each other. (b) Name two pairs of lines perpendicular to each other. (c) Name two pairs of lines not parallel and not perpendicular to each other.



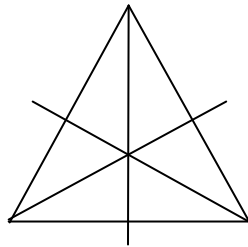
5. (a) How many  $45^\circ$  angles are shown in the following square with two diagonals? (b) How many right angles are there?



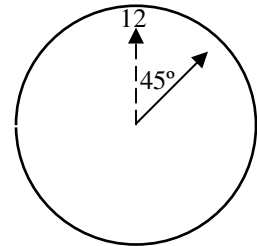
6. (a) How many  $45^\circ$  angles are shown in the following rectangle with two diagonals? (b) How many right angles are there?



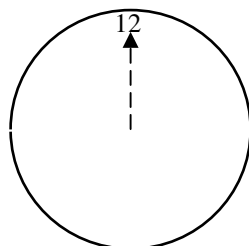
7. (a) How many  $45^\circ$  angles are shown in the following triangle with three perpendiculars? (b) How many right-angle triangles are there?



8. How many  $45^\circ$  angle does a clock hand cover when it turns around once?



9. The starting position (dotted arrow) of a clock hand is shown. Draw accurately the clock hand after a rotation of  $225^\circ$ .



Numerical, algebraic and worded answers.

1. From left to right: O A A O R O
  2. Clockwise from top left: A O O A O R R
  3. (a) B and C, C and E, or B and E; (b) B and D, C and D, or E and D; (c) A and any one of the other lines, or F and any one of the other lines.
  4. (a) G and H, I and J; (b) D and H, F and K; (c) B and L, A and C.
- There are many other possibilities.
5. (a) 8 (b) 8
  6. (a) 0 (b) 4
  7. (a) 0 (b) 12
  8. 8