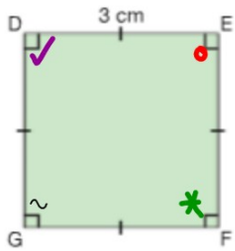
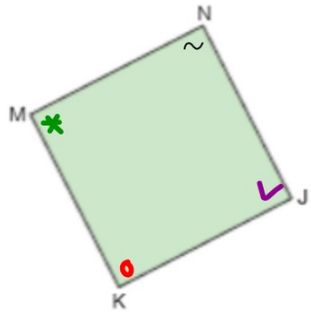
Practice

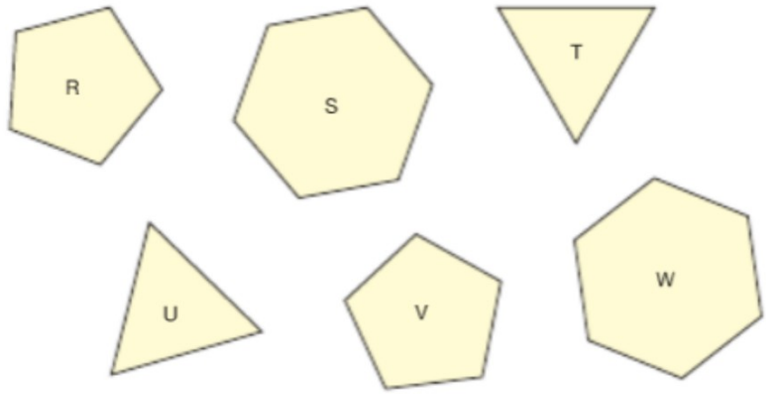
1. Quadrilaterals DEFG and JKMN are congruent.
   a) Without using a protractor, write the measure of each angle in JKMN.
   b) Without using a ruler, write the length of each side in JKMN.



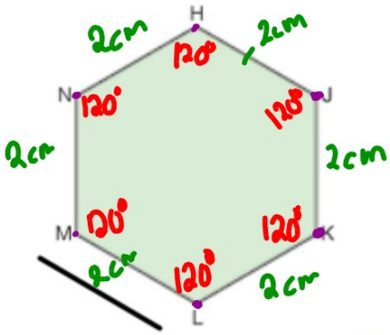


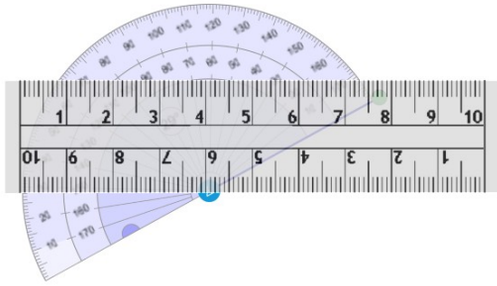
→ All corners 90°
All sides are 3cm

2. Which of these polygons are congruent?
   How can you tell?



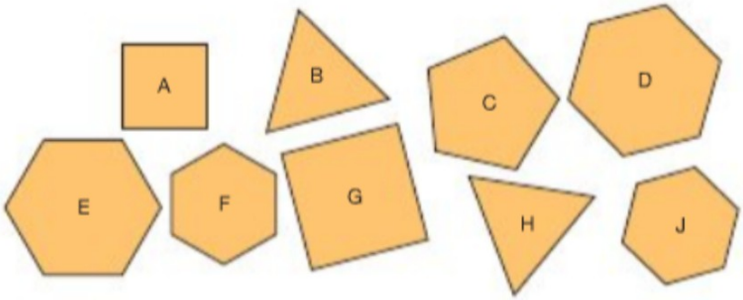
3. a) Use tracing paper. Trace hexagon HJKLMN on paper.
Label the vertices of the traced hexagon UVWXYZ.





b) Find the side lengths and angle measures of both hexagons.
What do you notice?

4. Your teacher will give you a large copy of these polygons.
Use whatever materials you need.



a) Which pairs of polygons have corresponding angles congruent?
Which strategy did you use to find out?
b) Which pairs of polygons have corresponding sides congruent?
Which strategy did you use to find out?
c) Which pairs of polygons in parts a and b are congruent?
How did you decide?
Show your work.

5. Work with a partner. You will need tracing paper and a ruler.
Each of you draws a triangle. Use tracing paper to draw 2 exact copies of the triangle in different orientations.
Trade triangles with your partner.
Check that your partner's triangles are congruent.
Which strategy did you use to check?



6. Draw a regular hexagon on triangular dot paper.
Use measuring and superimposing to show that all angles are congruent and all sides are congruent.
Show your work.

7. A student drew a rectangle on grid paper.
The student said, "Since all the angles measure 90°, the angles are congruent. So, the rectangle is a regular quadrilateral."
Do you agree? Why or why not?