

Week 7 Maths Project

The goal: To demonstrate your understanding of geometric vocabulary, you will be designing and drawing a town map that incorporates many geometric key terms. The project should be no smaller than A4, and no larger than a poster board. It can be drawn by hand, or done on the computer, or even a combination of both. These are to be displayed in the classroom so your map should be neat and visually appealing.

Legend: (Your town must include)

A Title at the Top (the name of your town)

You should include the following items:

- ☐ 1 a-b. Two streets (lines) that are parallel to each other.
- ☐ 2. A diagonal street (line) that is a transversal to the parallel streets.
- ☐ 3. Add two coffee shops that are located in corresponding angles.
- ☐ 4. Draw two gas stations that are located in alternate interior angles.
- ☐ 5. Add two grocery stores located in alternate exterior angles.
- ☐ 6 a-b. Two streets (lines) that are perpendicular to each other.
- ☐ 7. A building/park or intersection that has an angle measuring 45°
- ☐ 8. A building/park or intersection that has an angle measuring 90°
- ☐ 9 a-b. Draw two roads (line segments) that are congruent to each other. They do not need to be connected or parallel.
- ☐ 10. Draw a round-about in the midpoint of a line segment.
- ☐ 11. Draw a path or bridge that connects two complementary angles divided by a creek.
- ☐ 12. Draw a path or bridge that connects two supplementary angles divided by a train track.
- ☐ 13. Draw two parks (coloured green) that are vertically opposite to each other.
- ☐ 14. Draw a hospital in the shape of a parallelogram
- ☐ 15. Draw a school in the shape of a trapezoid that is at an intersection of an obtuse angle.
- ☐ 16. Draw a post office in the shape of a rhombus located at an intersection of an acute angle.
- ☐ 17. Draw a courthouse in the shape of a pentagon located at an intersection of a right angle.
- ☐ 18 a-b-c. Draw three swimming pools, each coloured blue: 1 scalene, 1 isosceles, and 1 equilateral triangle.
- ☐ 19. Draw a regular hexagonal building (or neighbourhood)
- ☐ 20. Draw an irregular octagonal building (or neighbourhood)

Remember you can add more roads and buildings than those listed above. Please see the next page for some inspiration and examples.

