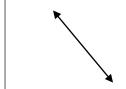


## 4.G.A.1 Parallel, Perpendicular, and Intersecting Lines

4.G.A.1: Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.

Give what is asked in each item and then write your answers on the space provided.

1. Draw a line perpendicular to each of the following lines using a compass and straightedge.







2. Fill in the missing information about the objects/images.

- a. The edges of the road is a good model of \_\_\_\_\_lines.
- b. The image below is a good model of \_\_\_\_\_ lines.





3. Using a ruler, draw a line that is perpendicular to both lines shown below.



4. Parallel lines *a* and *b* lie on an XY plane. Is it possible for line *c* to be perpendicular with line *a* but not with line *b*? If yes, draw it. If otherwise, explain.

5. Use the figure below. How many sets of intersecting lines does this figure have?



Answer:

## tutorified

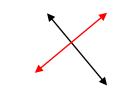
## 4.G.A.1 Parallel, Perpendicular, and Intersecting Lines

**Answer Key** 

4.G.A.1: Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.

Give what is asked in each item and then write your answers on the space provided.

1. Draw a line perpendicular to each of the following lines using a compass and straightedge.







2. Fill in the missing information about the objects/images.

- a. The edges of the road is a good model of \_\_\_\_\_lines.
- b. The image below is a good model of <u>perpendicular</u> lines.





3. Using a ruler, draw a line that is perpendicular to both lines shown below.



4. Parallel lines *a* and *b* lie on an XY plane. Is it possible for line *c* to be perpendicular with line *a* but not with line *b*? If yes, draw it. If otherwise, explain.

No. Lines have infinite lengths. On the same plane, if a line intersects to one of the two parallel lines, it will also intersect the other line at the same angle. So if line c is perpendicular with line a, it is also perpendicular with line b.

5. Use the figure below. How many sets of intersecting lines does this figure have?



Answer: 8