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## 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 $\qquad$ lines.
b. The image below is a good model of $\qquad$ 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:

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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 $\qquad$ lines.

b. The image below is a good model of _perpendicular_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

