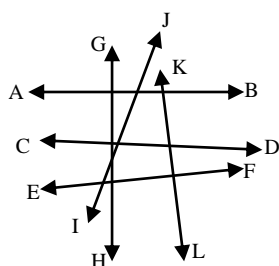


4.G.A.1 Line Relationships and Angles Formed

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.

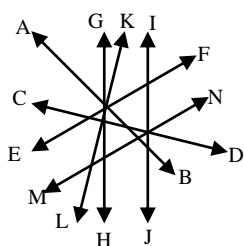
Give what is asked in each item and then write your answers on the space provided.

1. Refer to the figure given below. Which lines appear to be perpendicular?



Answers:

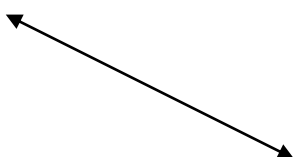
2. Refer to the figure given below. Which lines appear to be parallel?



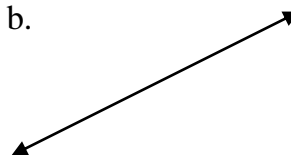
Answers:

3. Use a compass and straightedge to construct a line that is perpendicular to each line below.

a.



b.



4. Write True if the statement is true and False if otherwise.

- The angle between the two parallel lines is 0° or 180° .
- The angle between the two perpendicular lines is 0° or 180° .
- Perpendicular lines do not meet.
- If two lines are parallel, they must be intersecting.
- If two lines intersect, they might be perpendicular.

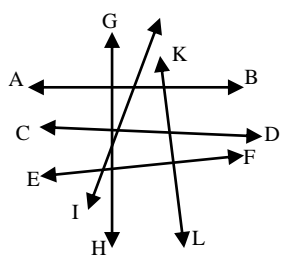
4.G.A.1 Line Relationships and Angles Formed

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.

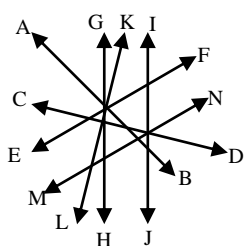
1. Refer to the figure given below. Which lines appear to be perpendicular?



Answers:

AB and **GH**, **EF** and **KL**

2. Refer to the figure given below. Which lines appear to be parallel?

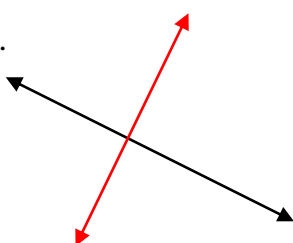


Answers:

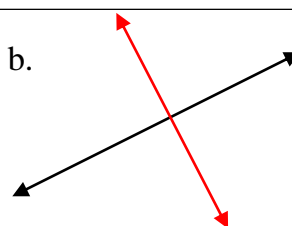
GH and **IJ**, **EF** and **MN**

3. Use a compass and straightedge to construct a line that is perpendicular to each line below.

a.



b.



4. Write True if the statement is true and False if otherwise.

- The angle between the two parallel lines is 0° or 180° .
- The angle between the two perpendicular lines is 0° or 180° .
- Perpendicular lines do not meet.
- If two lines are parallel, they must be intersecting.
- If two lines intersect, they might be perpendicular.

True

False

False

False

True