Lines, Segments, and Rays

A line is...

a. a wavy path that goes on forever in both directions with no endpoints.
b. a long path that has an endpoint on each end.
c. a straight path that goes on forever in both directions with no endpoints.

Draw a line.

A line segment is...

a. a part of a line that has an endpoint on both ends.
b. a line that goes on forever in only one direction.
c. a part of a line that crosses another.

Draw a line segment.

A ray is...

a. part of a line that does not touch another line.
b. a wavy path that goes on in two directions with no endpoints.
c. part of a line that goes on forever in only one direction.

Draw a ray.

A point is...

a. an exact position on a plane.
b. a line on a plane.
c. a circle on a plane.

Draw two points.
Parallel lines are...
   a. lines that cross more than once.
   b. lines that cross only once.
   c. lines that never cross.

Intersecting lines are...
   a. lines that cross more than once.
   b. lines that cross only once.
   c. lines that never cross.

Perpendicular lines are...
   a. lines that cross at a right angle.
   b. lines that cross at an acute angle.
   c. lines that never cross.

Thinking Question
Can a pair of lines be both parallel and perpendicular? Explain.

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ANSWER KEY

Lines, Segments, and Rays

A line is...

- a. a wavy path that goes on forever in both directions with no endpoints.
- b. a long path that has an endpoint on each end.
- c. a straight path that goes on forever in both directions with no endpoints.

Draw a line.

A line segment is...

- a. a part of a line that has an endpoint on both ends.
- b. a line that goes on forever in only one direction.
- c. a part of a line that crosses another line.

Draw a line segment.

A ray is...

- a. part of a line that does not touch another line.
- b. a wavy path that goes on in two directions with no endpoints.
- c. part of a line that goes on forever in only one direction.

Draw a ray.

A point is...

- a. an exact position on a plane.
- b. a line on a plane.
- c. a circle on a plane.

Draw two points.

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Preview

Please log in to download the printable version of this worksheet.
Parallel lines are...

- a. lines that cross more than once.
- b. lines that cross only once.
- c. lines that never cross.

Draw a pair of parallel lines.

Intersecting lines are...

- a. lines that cross more than once.
- b. lines that cross only once.
- c. lines that never cross.

Draw a pair of intersecting lines.

Perpendicular lines are...

- a. lines that cross at a right angle.
- b. lines that cross at an acute angle.
- c. lines that never cross.

Draw a pair of perpendicular lines.

Thinking Question

Can a pair of lines be both parallel and perpendicular? Explain.

No, they cannot. Parallel lines go on forever and never cross. Perpendicular lines cross at a right angle. It would be impossible for a line to both cross and not cross.