Basic Geometry Terms

Cross-Curricular Focus: Mathematics

GEOMETRY

Ray

Line

Parallel Lines

Perpendicular lines

Intersecting Lines

Geometry is the study of two-dimensional shapes, three-dimensional figures and all the various positions, combinations, sizes and shapes they can have. Geometry deals with a sense of space. It requires people to reason and problem-solve. Geometry is found in everyday life, especially in art, science, architecture, sports and more.

An ancient Greek named Euclid is known as the Father of Geometry. Much of the geometry studied by students is based on his ideas. His ideas are very important for further geometrical studies in high school and college.

There are many important mathematical terms to know to be successful in geometry. A **ray** is part of a line. It has only one endpoint, and it extends forever in one direction. A **line** is a straight path of points that continues on forever in two directions.

Lines are called different things depending on their position in relationship to other lines. Two lines are parallel to each other when they stay the same distance apart and never cross. Two lines are **perpendicular** to each other when they cross to form four right angles. Two lines are **intersecting** lines when one line crosses the other, and they share a point.

Name: _____

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.
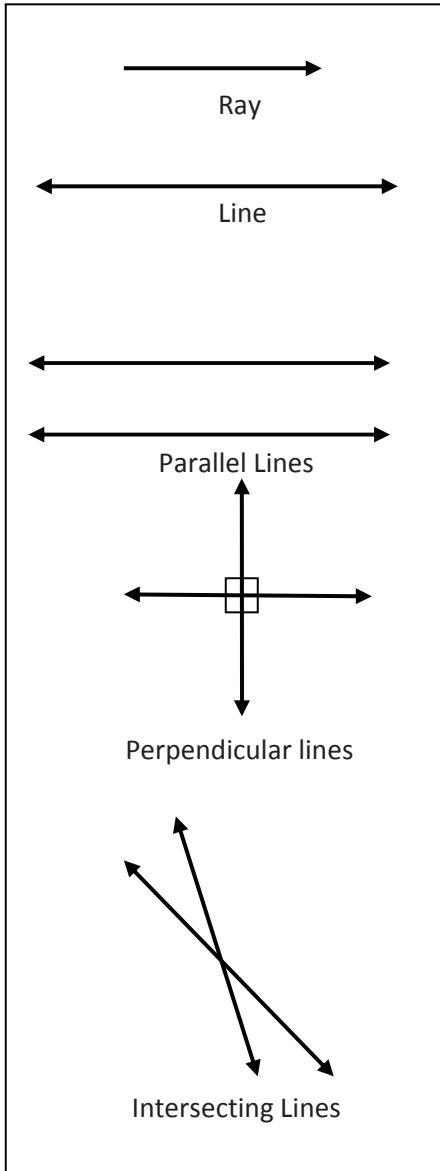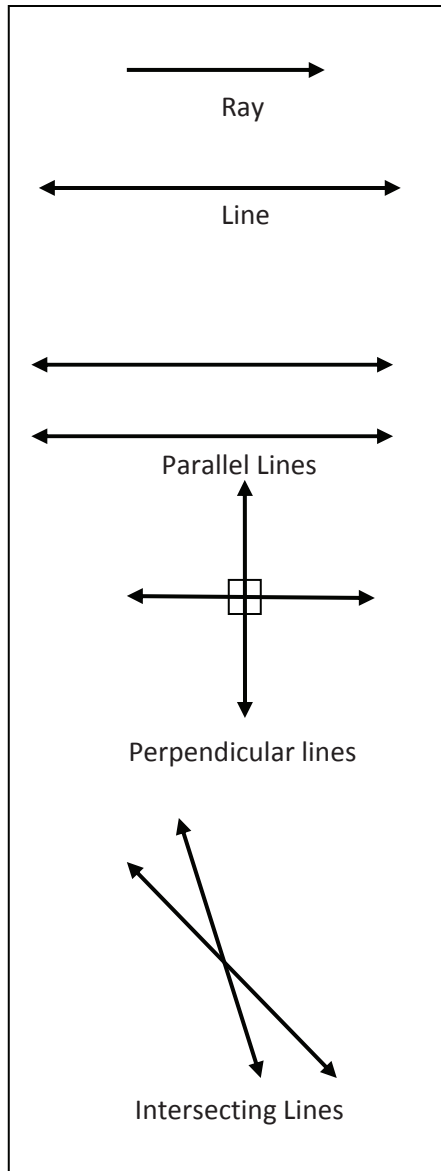
1) Who is called the Father of Geometry?

_____

_____

2) Use at least two geometrical shapes to make an artistic design in this space.

_____

_____

3) What is the main difference between a ray and a line?

_____

_____

4) How do you know if two lines are parallel to each other?

_____

_____

5) How you do know if two lines are perpendicular to each other?

_____

_____

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Name: **Key**

Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.

1) Who is called the Father of Geometry?
Euclid

2) Use at least two geometrical shapes to make an artistic design in this space.
student's choice

3) What is the main difference between a ray and a line?
A ray goes in one direction and a line goes in two directions.

4) How do you know if two lines are parallel to each other?
They stay the same distance apart.

5) How you do know if two lines are perpendicular to each other?
They form four right angles where they meet.