

Subject: Mathematics

Class: 6

Topic: Points, Lines, and Line Segments

Levels: Basic, Intermediate, Advanced

Level: Basic

1. A ? (point) determines a location and has no size. (True/False)
2. How many lines can pass through a single point P? _____
3. A line segment has _____ (count) fixed endpoints.
4. The symbol for a line segment joining points A and B is AB with a bar. (True/False)
5. Ravi draws a straight path that goes on forever in both directions. This is a _____.
6. A ray has _____ (one/two) starting point and extends forever in the other direction.
7. Give an example of a line segment from your school bag: _____
8. How many points are needed to name a specific line? _____
9. Draw a point and label it as 'M' using your pencil: _____
10. The distance between two points X and Y is the length of the _____ segment XY.

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Level: Intermediate

1. Two lines in a plane that never meet, like Railway tracks, are called _____ lines.
2. If two lines share exactly one common point, they are called _____ lines.
3. Identify the symbol: If line L is parallel to line M, we write L _____ M.
4. Name the points on the boundary of a triangle ABC: _____
5. Anila says a line has a definite length of 10 cm. Is she correct? (Yes/No)
6. How many line segments are there in a rectangle? _____
7. If point B lies between A and C on a line, name the three segments formed: _____
8. Concurrent lines are three or more lines that pass through the _____ point.
9. The edge of a ₹ 500 note represents a _____ (Line / Line Segment).
10. Which is longer: A line segment of 5 cm or a Ray? (Think carefully!) _____

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1. In a plane, if line L is \parallel to M, and M is \parallel to N, then L is _____ to N.
2. How many line segments can be drawn connecting 4 non-collinear points? _____
3. A line segment AB is 8 cm. If point P is the midpoint, length of AP = _____ cm.
4. If θ represents the angle where two lines meet, what is θ if the lines are perpendicular? _____
5. How many lines can pass through two distinct points X and Y? _____
6. True/False: A line segment is a part of a line. _____
7. Points that lie on the same straight line are called _____ points.
8. In a circle, a chord is a _____ segment connecting two points on the boundary.
9. A set of all points in a plane extending infinitely is called a _____.
10. Challenge: If a line segment is divided into 3 equal parts of 4 cm each, total length is _____ cm.