

Subject: Mathematics

Class: 6

Topic: Rays and Types of Lines

Levels: Basic, Intermediate, Advanced

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**Level: Basic**

1. A line segment has \_\_\_\_\_ (count) endpoints.
2. A ray starts at a point ? and goes on forever in \_\_\_\_\_ (one/two) direction.
3. Two lines that never meet, like Railway tracks, are called \_\_\_\_\_ lines.
4. Identify this shape: ?????????????? (Line / Ray / Segment).
5. A point is represented by a small \_\_\_\_\_ (?) and named with a capital letter.
6. How many lines can pass through a single point ?? \_\_\_\_\_
7. A line ?????????????? has \_\_\_\_\_ endpoints. (Zero / One / Two)
8. Ravi draws a line segment of 5 cm. It has a \_\_\_\_\_ (fixed / infinite) length.
9. If two lines cross each other at a point ?, they are called \_\_\_\_\_ lines.
10. Use a symbol: A ray starting at P and passing through Q is written as \_\_\_\_\_.

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**Level: Intermediate**

1. The letter 'L' shows two lines meeting at \_\_\_\_\_ degrees ( $90^\circ$  /  $180^\circ$ ).
2. Parallel lines are always at the \_\_\_\_\_ (same / different) distance from each other.
3. Name the common point where two intersecting lines meet: Point of \_\_\_\_\_.
4. A sunbeam starting from the ? (Sun) and reaching Earth is an example of a \_\_\_\_\_.
5. How many lines can pass through two distinct points A and B? \_\_\_\_\_
6. Are the edges of your Maths notebook parallel or intersecting? \_\_\_\_\_
7. If line AB is parallel to line CD, we write it as AB \_\_\_\_\_ CD (Use symbol ||).
8. The hands of a clock at 3:00 PM form \_\_\_\_\_ lines. (Parallel / Perpendicular)
9. If we extend a line segment AB endlessly in both directions, we get a \_\_\_\_\_.
10. Three or more points lying on the same straight line are called \_\_\_\_\_ points.

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**Level: Advanced**

1. If line  $L1 \parallel L2$  and  $L2 \parallel L3$ , then is  $L1$  parallel to  $L3$ ? \_\_\_\_\_ (Yes/No)
2. Calculate: If a ray makes an angle  $\theta$  with a line, and  $\theta = 90^\circ$ , the lines are \_\_\_\_\_.
3. Can two different lines intersect at more than one point ?? \_\_\_\_\_
4. An umbrella has many ribs meeting at the top. These are \_\_\_\_\_ lines.
5. True/False: A plane surface can contain an infinite number of lines. \_\_\_\_\_
6. If you draw a line on a piece of paper, how many points  $\theta$  does it contain? \_\_\_\_\_
7. Identify: The letter 'X' is an example of \_\_\_\_\_ lines.
8. Find the value: If a full circle is  $2\pi$  radians, how many degrees is a straight line? \_\_\_\_\_
9. In a rectangle, the opposite sides are \_\_\_\_\_ and the adjacent sides are \_\_\_\_\_.
10. Challenge: Draw two rays originating from the same point  $\theta$  to form an angle.