

Name: _____

Grade: _____

Score: _____

Worksheet #2



PARALLEL, INTERSECTING, AND PERPENDICULAR LINES

Learning goal: Students will identify and classify lines as parallel, perpendicular, or intersecting based on their properties.

Zara is creating a chalk mural on the road in her colony for a local art contest. Her design has roads, crossing lanes, lamp posts, and patterns that include different types of lines. Her brother Ayaan helps measure and plan the design with a measuring tape and set squares.

1. Zara draws two lines that never meet and are always the same distance apart. What type of lines are these?

2. Ayaan draws two streets that cross each other at one point. What are these lines called?

3. Zara draws a zebra crossing where the stripes meet the road edge at 90° . What kind of lines are these?

4. Zara measures the angle between two roads that meet to form a right angle. What is the measure?

5. Two lines on the mural intersect but do not form right angles. Are these lines perpendicular?

6. Zara marks two dotted lines on a path that are always 4 cm apart. How can she prove they are parallel?

7. Ayaan claims that all perpendicular lines must also intersect. Is he correct?

8. Zara draws two lines that meet at a single point and form four equal angles. What are these angles?

9. Zara draws two chalk lines that cross each other but do not form a right angle. What kind of lines are these, and what is the sum of the angles they create at the intersection?

10. Zara draws railway tracks that run alongside each other. Are they intersecting, perpendicular, or parallel?

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Worksheet #2(Answers)



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1. Zara draws two lines that never meet and are always the same distance apart. What type of lines are these?

Parallel lines

2. Ayaan draws two streets that cross each other at one point. What are these lines called?

Intersecting lines

3. Zara draws a zebra crossing where the stripes meet the road edge at 90° . What kind of lines are these?

Perpendicular lines

4. Zara measures the angle between two roads that meet to form a right angle. What is the measure?

90 degrees

5. Two lines on the mural intersect but do not form right angles. Are these lines perpendicular?

No, they are intersecting, but not perpendicular.

6. Zara marks two dotted lines on a path that are always 4 cm apart. How can she prove they are parallel?

By showing they are equidistant at all points and never meet.

7. Ayaan claims that all perpendicular lines must also intersect. Is he correct?

Yes, because perpendicular lines intersect at a right angle.

8. Zara draws two lines that meet at a single point and form four equal angles. What are these angles?

Each angle is 90° , and the lines are perpendicular.

9. Zara draws two chalk lines that cross each other but do not form a right angle. What kind of lines are these, and what is the sum of the angles they create at the intersection?

Intersecting lines & the angles formed at the point of intersection add up to 360° .

10. Zara draws railway tracks that run alongside each other. Are they intersecting, perpendicular, or parallel?

Parallel