



GRADE 4 / WATCH MR DJ SOLVE

POINTS, LINES, RAYS AND ANGLES

Start with the same example used in the lesson slides.



WATCH MR DJ SOLVE

Draw and label a point A, a line through A and B, a ray starting at A through C, and segment BC. Show endpoints and arrows.

- 1 A point marks a location.
- 2 A line continues both ways
- 3 a ray continues from one endpoint.
- 4 A segment has two endpoints and no continuation arrows.

Answer: **Point: location; line: two arrows; ray: one; segment: none**



REMEMBER Use endpoints, directions and angle relationships to distinguish geometric objects.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.

GRADE 4 / WORKED METHODS

POINTS, LINES, RAYS AND ANGLES

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Read endpoints and continuation arrows

Line AB; ray AC; segment BC

1. A line through A and B has arrows in both directions.
2. Ray AC starts at A and extends through C.
3. Segment BC stops at B and C.

Endpoints stop; arrows continue





GRADE 4 / WORKED METHODS

POINTS, LINES, RAYS AND ANGLES

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Name an angle from its vertex

Angle BAC has vertex A

1. The middle letter names the shared endpoint.
2. Its rays are AB and AC.
3. Reversing B and C still names the same smaller angle here.



GRADE 4 / PRACTICE

POINTS, LINES, RAYS AND ANGLES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild

1. Explain how ray AB differs from ray BA. Draw a separate labeled example of each.

My answer / conclusion: _____



GRADE 4 / PRACTICE

POINTS, LINES, RAYS AND ANGLES

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Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild

2. Draw one pair of parallel lines and one pair of perpendicular lines. Add arrows and a right-angle mark where appropriate.

My answer / conclusion: _____



GRADE 4 / PRACTICE

POINTS, LINES, RAYS AND ANGLES

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

3. Draw angle BAC. Circle its vertex and underline the two ray names.

My answer / conclusion: _____



GRADE 4 / PRACTICE

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Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

4. Draw an acute angle, a right angle and an obtuse angle. Label each and use 90° as a comparison.

My answer / conclusion: _____



GRADE 4 / PRACTICE

POINTS, LINES, RAYS AND ANGLES

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Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

5. Two lines cross, making a 60° angle. Are they perpendicular? Explain with the definition.

Grid area for working on question 5.

My answer / conclusion: _____

🔊🔊🔊 Spicy

6. A child calls two drawn segments parallel because they do not touch on the page. Why is that evidence insufficient?

Grid area for working on question 6.

My answer / conclusion: _____



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Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

7. Can two different rays make the same drawn line? Draw and explain one case.

Grid area for drawing and explanation.

My answer / conclusion: _____



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Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Must a right angle have a horizontal ray? Rotate a right-angle drawing to explain.

Grid area for drawing and explanation.

My answer / conclusion: _____