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What are lines line segments and rays

Instructional video Additional materials About this video You'll gain access to interventions, extensions, task implementation guides, and more for this instructional video. In this lesson you will learn how to identify points, rays, lines, and line segments by observing their characteristics. Parents and Teachers: Use the coupon code "summerisclose" to receive 60% off (yes 60) your subscription to MrN 365 (. If you choose to renew your subscription after one year, you'll pay the same discounted rate. 1 Lines, Line Segments, Rays and Angles 2 What is a Line? A line is a straight path that goes on forever in both directions. 3 What is a line segment? A line segment is part of a line that has two endpoints. 4 What is a ray? A ray is a part of a line that has one endpoint and goes on forever in one direction. 5 What are parallel lines? Parallel lines are lines that never intersect. 6 What is a vertex? A vertex is the point at which two lines or rays meet to form an angle. More than one vertex are called vertices. 7 What are intersecting lines? Lines that cross at any point are intersecting lines. 8 What are perpendicular lines? Two lines that cross to form a right angle are intersecting lines. 9 What is a right angle? A right angle is an angle that measures 90 degrees and forms a square. 10 What is an acute angle? An angle that measures less than 90 degrees. "A cute little angle" 11 What is an obtuse angle? An obtuse angle is an angle that measures more than 90 degrees. 12 Practice Name each figure 1. 2. 3. 4. 5. 13 Intersecting or Perpendicular? 1. 2. 3. 14 Obtuse or Acute? 1. 2. 3 4. A point is a single, precise location, describable in a single coordinate pair. A segment runs between two points. A ray starts at a point and goes forever in a specific direction. A line runs forever in both directions. Doorstep tutor material for NSO is prepared by world's top subject experts: fully solved questions with step-by-step explanation- practice your way to success. Download PDF of This Page (Size: 1.3M) I (1) In Each Question, Identify if the Entire Dotted Part of Each Figure is a Line, Ray, or Line Segment. Then Tick (✓) the Correct Option and Cross Out (×) the Incorrect Ones (a) Illustration 2 for 1 In each question identify if ... (b) Illustration 3 for 1 In each question identify if ... (c) Illustration 4 for 1 In each question identify if ... (d) Illustration 5 for 1 In each question identify if ... (a) Illustration 6 for 2 Write in the names of the lin ... (b) Illustration 7 for 2 Write in the names of the lin ... (c) Illustration 8 for 2 Write in the names of the lin ... (d) Illustration 9 for 2 Write in the names of the lin ... (a) Illustration 10 for 3 In each question correctly w ... (b) Illustration 11 for 3 In each question correctly w ... (a) Illustration 12 for 4 In each question correctly w ... (b) Illustration 13 for 4 In each question correctly w ... (a) Illustration 14 for 5 Measure each line segment an ... (b) Illustration 15 for 5 Measure each line segment an ... (a) Illustration 16 for 6 Measure the line segments to ... (b) Illustration 17 for 6 Measure the line segments to ... (a) Construct a line segment QR of length 8 cm which passes through point O such that is 5 cm. (b) Construct a line segment PQ of length 12 cm. place a point R on the line segment such that Answers and Explanations Answer 1 (A) In given figure, The entire dotted part of the figure is a line. A line is a straight path of points that has no beginning or end. Illustration 18 for Answers and Explanations Therefore, the correct option is Illustration 19 for Answers and Explanations Answer 1 (B) In given figure, The entire dotted part of the figure is a ray. A ray is a portion of a line which has one endpoint and extends forever in one direction. Illustration 20 for Answers and Explanations Therefore, the correct option is Illustration 21 for Answers and Explanations Answer 1 (C) In given figure, The entire dotted part of the figure is a line segment. A line segment is a portion of a line that has two endpoints. Illustration 22 for Answers and Explanations Therefore, the correct option is Illustration 23 for Answers and Explanations Answer 1 (D) In given figure, The entire dotted part of the figure is a ray. A ray is a portion of a line which has one endpoint and extends forever in one direction. Illustration 24 for Answers and Explanations Therefore, the correct option is Illustration 25 for Answers and Explanations Answer 2 (A) We indicate a line with arrows at both ends to show that the line continues forever in both directions. So, the names of the lines A line segment is a part of a line with end points at both ends. So, the names of a line segments A ray has an end point at one end and an arrow at the other end to show that it starts from one point and then goes on forever in one direction. So, the names of the rays Therefore, the answer is Illustration 26 for Answers and Explanations Answer 2 (B) A line segment is a part of a line with end points at both ends. So, the names of a line segments A ray has an end point at one end and an arrow at the other end to show that it starts from one point and then goes on forever in one direction. So, the names of the rays Therefore, the answer is Illustration 27 for Answers and Explanations Answer 2 (C) We indicate a line with arrows at both ends to show that the line continues forever in both directions. So, the names of the lines A ray has an end point at one end and an arrow at the other end to show that it starts from one point and then goes on forever in one direction. So, the names of the rays Therefore, the answer is Illustration 28 for Answers and Explanations Answer 2 (D) We indicate a line with arrows at both ends to show that the line continues forever in both directions. So, the names of the lines A ray has an end point at one end and an arrow at the other end to show that it starts from one point and then goes on forever in one direction. So, the names of the rays Therefore, the answer is Illustration 29 for Answers and Explanations Answer 3 (A) A point has no size or shape, just position. So, name of the point A line is a straight path of points that has no beginning or end. A line segment is a portion of a line that has two endpoints. So, the name of the line segment A ray is a portion of a line which has one endpoint and extends forever in one direction. So, the name of the ray Therefore, the answer is Illustration 30 for Answers and Explanations Answer 3 (B) A point has no size or shape, just position. So, name of the point A line is a straight path of points that has no beginning or end. So, the name of the line A line segment is a portion of a line that has two endpoints. So, the name of the ray Therefore, the answer is Illustration 31 for Answers and Explanations Answer 4 (A) In given figure, point defined as P and Q. A line segment is a portion of a line that has two endpoints i.e., Therefore, given figure represent a line segment. Illustration 32 for Answers and Explanations Answer 4 (B) In given figure, We indicate a line with arrows at both ends to show that the line continues forever in both directions. Therefore, given figure represent a line. Illustration 33 for Answers and Explanations Answer 5 (A) A line segment is a portion of a line that has two endpoints. Illustration 34 for Answers and Explanations As per figure, length of Answer 5 (B) A line segment is a portion of a line that has two endpoints. Illustration 35 for Answers and Explanations As per figure, length of Answer 6 (A) A line segment, can be measured because it has two endpoints. A segment with endpoints S and T can be named. The length or measure of is written as ST. Illustration 36 for Answers and Explanations A segment with endpoints U and V can be named. The length or measure of is written as UV. Illustration 37 for Answers and Explanations So, then end of line segment ST falls approximately 7 cm, by eye judgment. And then end of line segment UV falls approximately 9 cm, by eye judgment. According to the questions, length of both line segments are not equal. In 2nd - it is not line segments are congruent because two angles are congruent if they have the same measure. Therefore, the answer is Illustration 38 for Answers and Explanations Answer 6 (B) A line segment, can be measured because it has two endpoints. A segment with endpoints E and F can be named. The length or measure of is written as EF. A segment with endpoints G and H can be named. The length or measure of is written as GH. Hence, Illustration 39 for Answers and Explanations So, then end of line segment EF falls approximately 8 cm, by eye judgment. And then end of line segment GH falls approximately 8 cm, by eye judgment. According to the questions, length of both line segments are equal. In 2nd - the line segments are congruent because two angles are congruent if they have the same measure. Therefore, the answer is Illustration 40 for Answers and Explanations Answer 7 (A) A line segment, can be measured because it has two endpoints. A line segment of QR of length 6 cm. Illustration 41 for Answers and Explanations Then which passes through point O such that = 5 cm. So, figure is Illustration 42 for Answers and Explanations A line segment, can be measured because it has two endpoints. Construct a line segment PQ. So, figure is Illustration 43 for Answers and Explanations Then place a point R on the line segment such that. Thus, figure look like. Illustration 44 for Answers and Explanations If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Definition of In Line-segment, ray and line geometry: A line segment is a fixed part of a line. It has two end points. It is named by the end points. In the figure given below end points are A and B. So, the line segment is called AB. A line segment is denoted as \overline{AB} . The part of a line is called a line-segment as shown below. Line segment \overline{AB} Line segment \overline{AB} Only one line can be drawn passing through any two points but a number of lines can be drawn through a point. Line AB Lines passing through a point O Line segment CD Ray: We know about sun-rays. A sun-ray starts from the sun and goes on a direction up to endless space. Similarly a geometrical ray is considered a special kind of line which starts from a fixed point and goes to any distance to the other direction of the starting point. The name of a ray is given with two capital letters. One letter is written at the starting point of the ray and the other letter is written near the arrow end as AB and LM. A line, line segment and ray all are called one dimensional (1-D) figures as they have only length. In short, a ray is a portion of line. It has one end point. A ray can be extended in any one direction endlessly. We name the given ray as \overrightarrow{AB} (\rightarrow is arrow). The first letter shows the end point. The Sun light is an example of the ray. Distinction between line-segment, ray and line: Line-segment 1. It has two end points. 2. The length of a line-segment is definite. So, it can be measured. 3. The symbol of a line-segment is \overline{AB} Ray 1. Ray has one starting point and another near the arrowhead. 2. It has a starting point but no other end point. So, its length cannot be measured. 3. The symbol of a ray is \overrightarrow{AB} Line 1. There are no end points in a line. 2. There are no end points. So, length of a line cannot be measured. 3. The symbol of a line is \overleftrightarrow{AB} These explanations on line-segment, ray and line will help the kids to understand the different fundamental element of geometry and their distinction. Practice the third grade math worksheet on point, lines, line-segment and ray in geometry. The questions will help the kids to understand the basic concept of point in geometry; lines Practice the math worksheet on third grade geometrical shapes. The questions will help the students to get prepared for the third grade geometry test. 1. Name the types of surfaces that you know. 2. What types of surfaces do the following objects have? Definition of points, lines and shapes in geometry: Point: A point is the fundamental element of geometry. If we put the tip of a pencil on a paper and press it lightly, Related Concepts ● Basic Shapes ● Surfaces of the Solids ● Common Solid Figures ● Points, Lines and Shapes ● Types of Lines ● Geometrical Design and Models 3rd Grade Math Lessons From Line-Segment Ray and Line to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this? 15,710 Plays You are not logged in! Track your progress and more. TurtleDiary.com is FREE! Your Quiz Progress is not being saved as you are logged-in with a Parent/Teacher Account. CCSS.Math.Content.4.G.A.1 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z The correct answer is 21,23,27 Remember : The smallest number is the one that comes first while counting. Solution : To arrange the given numbers in order from smallest to greatest, find the smallest number among all the given numbers. 21,27,23 21 is the smallest number.

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