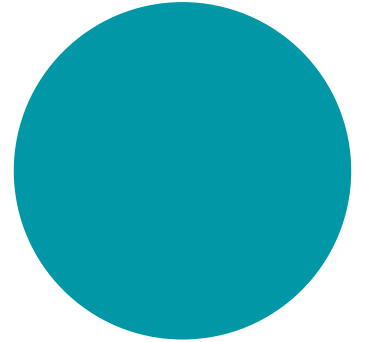


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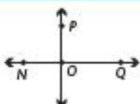
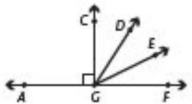
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Lesson 48 Lines, Rays, and Angles

4.G.1 – Medium

In geometry, shapes have names, like a square or a triangle. Parts that make up shapes also have names. Here are some key terms that you need to know.

Definition	Example	Name
A point is a single spot in space. Points are labeled with capital letters.	• A	Point A
A line is a series of points in a straight row that is infinitely long. The arrow at each end shows that the line goes on in either direction. Two labeled points on the line are used to name the line.		Line AB \overleftrightarrow{AB}
A line segment is a part of a line. It is defined by the points at each end. A line segment has a specific length.		Line segment AB \overline{AB}
A ray is like a line, but it goes on infinitely in only one direction (the arrow end). The other end of a ray has a labeled end point.		Ray AB \overrightarrow{AB}

Definition	Example	Description
Parallel lines are two or more lines or line segments that are always the same distance from one another and never cross.		\overleftrightarrow{AB} is parallel to \overleftrightarrow{CD}
Perpendicular lines cross and form a right angle.		\overleftrightarrow{NP} is perpendicular to \overleftrightarrow{OQ}
An angle is formed when two rays share an end point. Angles can be named by three points, with the shared end point of the rays in the middle of the name. An angle that looks like a square corner is a right angle . An angle smaller than a right angle is an acute angle . An angle larger than a right angle is an obtuse angle .		$\angle AGC$ is a right angle. $\angle EGF$ is an acute angle. $\angle AGE$ is an obtuse angle.

Test Example

1. Which sides are parallel?

- A. \overline{AB} and \overline{BC}
 B. \overline{BC} and \overline{CD}
 C. \overline{CD} and \overline{AD}
 D. \overline{AB} and \overline{CD}



1. D Sides \overline{AB} and \overline{CD} are the only pair that are always the same distance apart and do not cross.

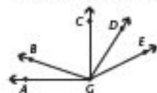
Hint










Refer to the tables on page 110 if you are unsure of any of the definitions.

Practice

Read each question. Select the correct answer.

Use the picture below for questions 1–3.



- 1 Which angle is obtuse?
 A. angle BGC B. angle AGD
 C. angle CGD D. angle AGC
- 2 Which angle is a right angle?
 A. $\angle ABG$
 B. $\angle BGC$
 C. $\angle AGC$
 D. $\angle AGD$
- 3 What type of angle is $\angle DGC$?
 A. acute B. square
 C. right D. obtuse
- 4 What type of lines cross to form a right angle?
 A. rays
 B. segments
 C. parallel
 D. perpendicular
- 5 Which shape has parallel line segments?
 A.  B. 
 C.  D. 
- 6 Which shape has perpendicular line segments?
 A.  B. 
 C.  D. 
- 7 What is not included in this shape?

 A. parallel line segments
 B. acute angles
 C. right angles
 D. perpendicular line segments
- 8 Think about a cereal box. How could you describe the edge of the bottom and the edge of one side?
 A. parallel line segments
 B. obtuse angle
 C. acute angle
 D. perpendicular line segments

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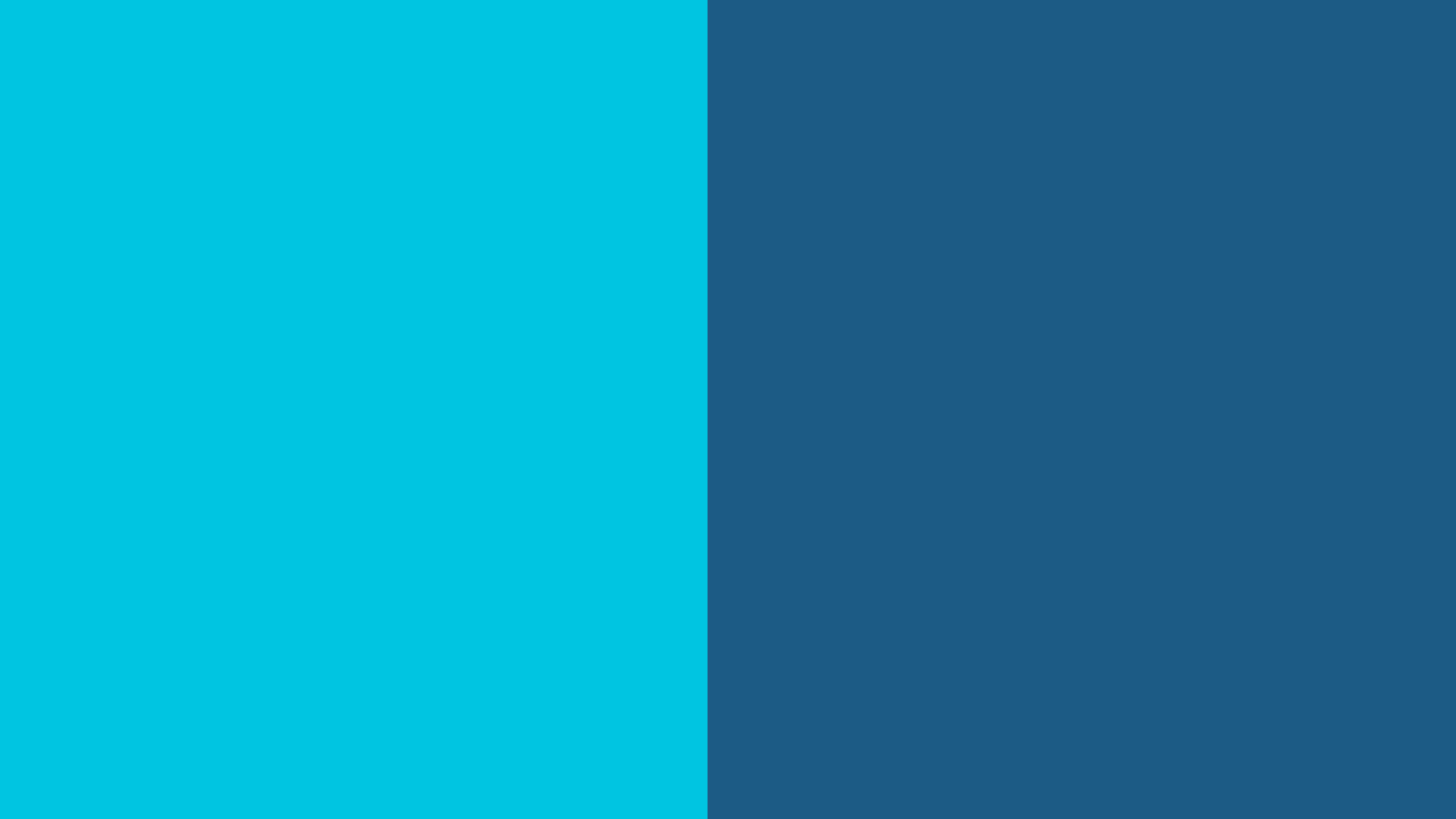
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This Friday! Distance Lear

