

Name: _____

Date: _____

SOL 4.10 ASSESSMENT

1. Select the correct statement that describes a line.

- a. It has two endpoints and includes all points between those endpoints.
- b. It has one endpoint and continues infinitely in one direction.
- c. A collection of points going on and on infinitely in both directions and had no endpoints.
- d. An exact location in space that has no length, width, or height.

2. Complete the chart with the missing description of a ray from the choices below.

Description of a Ray
• A ray is part of a line.
• A ray has exactly one endpoint.
• _____

- a. A ray is part of a line segment.
- b. A ray goes on and on infinitely in one direction.
- c. A ray has exactly two endpoints.
- d. A ray goes on and on infinitely in two directions.

For problems #3-8, use the word bank to name each figure described.

WORD BANK				
Angle	Point	Line	Vertex	Ray
				Line Segment

Description	Figure
(3) A figure with exactly two endpoints.	
(4) The point shared by two rays that form an angle.	
(5) A figure that extends infinitely in one direction.	
(6) A location in space with no height, length, or width.	
(7) A figure always formed by two rays with the same endpoints.	
(8) A figure with no endpoints.	

9. Identify the figure below.



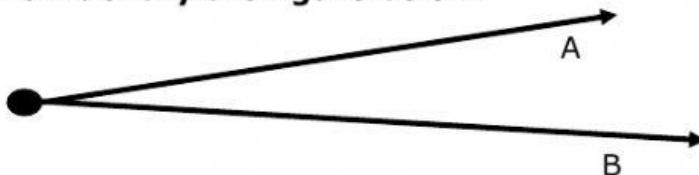
a. \leftrightarrow
AB

b. \angle AB

c. \bullet AB

d. $A \perp B$

10. Identify the figure below.



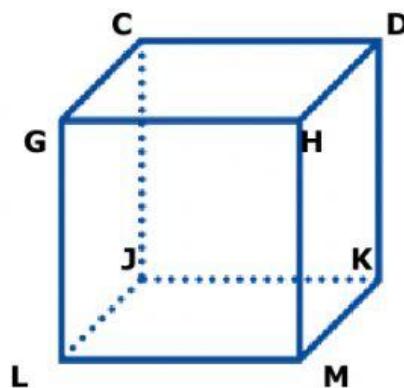
a. \leftrightarrow
AB

b. \angle AB

c. \overline{AB}

d. $A \perp B$

11. Identify the lines of the cube that are parallel lines.



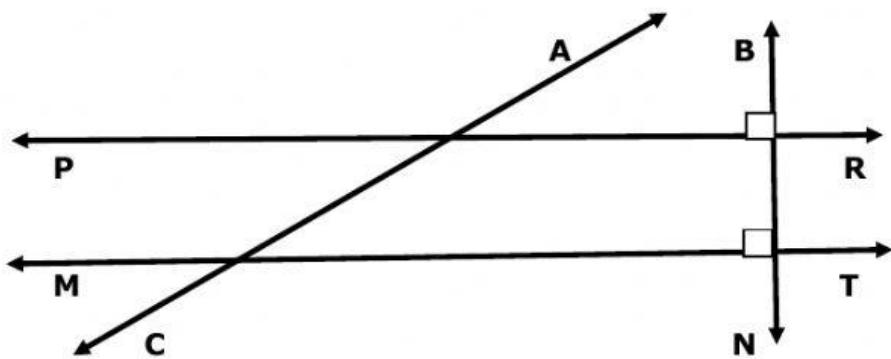
a. \leftrightarrow \parallel \leftrightarrow
GL \parallel MJ

b. \leftrightarrow \parallel \leftrightarrow
GL \parallel HM

c. \leftrightarrow \perp \leftrightarrow
GL \perp MJ

d. \leftrightarrow \perp \leftrightarrow
GL \perp HM

Use the figure below to answer questions 12 - 14.



12. Identify the two lines that appear to be perpendicular lines.

a. $\overleftrightarrow{CA} \perp \overleftrightarrow{BN}$

c. $\overleftrightarrow{CA} \perp \overleftrightarrow{MT}$

b. $\overleftrightarrow{PR} \perp \overleftrightarrow{MT}$

d. $\overleftrightarrow{PR} \perp \overleftrightarrow{BN}$

13. Identify the lines that are intersecting but not perpendicular.

a. Line PR and Line MT

c. Line MT and Line BN

b. Line PR and Line BN

d. Line AC and Line PR

14. The figure above shows four lines. Select three statements about the figure that appear to be true.

$\overleftrightarrow{CA} \parallel \overleftrightarrow{BN}$	$\overleftrightarrow{PR} \parallel \overleftrightarrow{MT}$
$\overleftrightarrow{CA} \parallel \overleftrightarrow{MT}$	$\overleftrightarrow{PR} \perp \overleftrightarrow{BN}$
$\overleftrightarrow{MT} \perp \overleftrightarrow{BN}$	$\overleftrightarrow{CA} \perp \overleftrightarrow{PR}$

Use the map below to answer question 15.



15. Which sets of roads appear to be parallel roads.

Battery Road and Linda Lane	Brigham Boulevard and Vincente
Raymond Avenue and Needles Street	John Street and Shore Drive