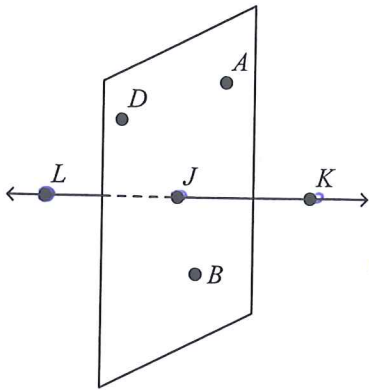


Geometry Review #1

Multiple Choice

Identify the choice that best completes the statement or answers the question.

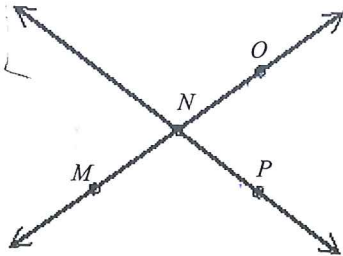
- D 1. What are the names of three collinear points?



Collinear
↑
all on the same line

- a. Points D , J , and K are collinear. b. Points A , J , and B are collinear. c. Points D , J , and B are collinear. d. Points L , J , and K are collinear.

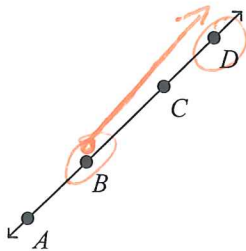
- A 2. Are O , N , and P collinear? If so, name the line on which they lie.



Not collinear

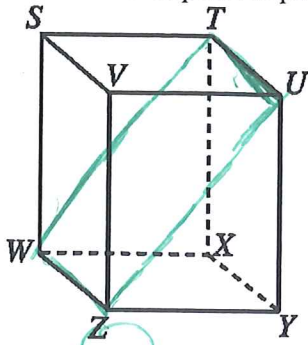
- a. No, the three points are not collinear. b. Yes, they lie on the line MP . c. Yes, they lie on the line NP . d. Yes, they lie on the line MO .

- D 3. What is the name of the ray that is opposite \overrightarrow{BA} ?



- a. \overrightarrow{BD} b. \overrightarrow{BA} c. \overrightarrow{CA} d. \overrightarrow{DA}

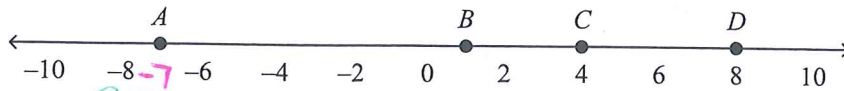
- B 4. Name a fourth point in plane TUW .



- a. Y b. Z c. W d. X

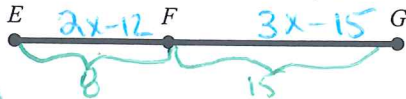
- B 5. What is the length of \overline{AD} ?

$$8 - (-7) = 8 + 7 = 15$$



- a. 17 b. 15 c. 7 d. 1

- A 6. If $EF = 2x - 12$, $FG = 3x - 15$, and $EG = 23$, find the values of x , EF , and FG . The drawing is not to scale.



$$(2x - 12) + (3x - 15) = 23$$

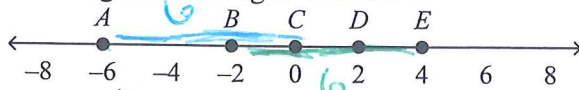
$$5x - 27 = 23$$

$$5x = 50$$

$$x = 10$$

- a. $x = 10$, $EF = 8$, $FG = 15$ b. $x = 3$, $EF = -6$, $FG = -6$ c. $x = 10$, $EF = 32$, $FG = 45$ d. $x = 3$, $EF = 8$, $FG = 15$

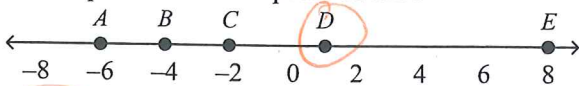
- B 7. What segment is congruent to \overline{AC} ?



- a. \overline{BD} b. \overline{BE} c. \overline{CE} d. none

$$\frac{8 + (-6)}{2} = \frac{8 + 6}{2} = \frac{2}{2} = 1$$

- A 8. Which point is the midpoint of \overline{AE} ?



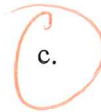
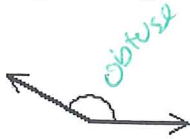
- a. D b. B c. not B , C , or D d. C

Name: _____

ID: A

C 9. Which angle is a right angle?

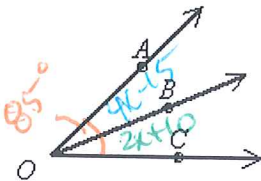
a. b. c.



d.



B 10. If $m\angle AOC = 85^\circ$, $m\angle BOC = 2x + 10$, and $m\angle AOB = 4x - 15$, find the degree measure of $\angle BOC$ and $\angle AOB$. The diagram is not to scale.



$$(4x - 15) + (2x + 10) = 85$$

$$6x - 5 = 85$$

$$6x = 90$$

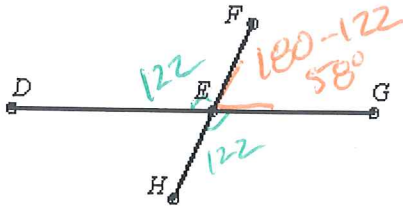
$$x = 15$$

$$4(15) - 15 = 60 - 15 = 45$$
$$\angle AOB = 45^\circ$$

$$2(15) + 10 = 30 + 10 = 40$$
$$\angle BOC = 40$$

- a. $m\angle BOC = 30^\circ$; $m\angle AOB = 55^\circ$ b. $m\angle BOC = 40^\circ$; $m\angle AOB = 45^\circ$ c. $m\angle BOC = 45^\circ$; $m\angle AOB = 40^\circ$
d. $m\angle BOC = 55^\circ$; $m\angle AOB = 30^\circ$

11. If $m\angle DEF = 122$, then what are $m\angle FEG$ and $m\angle HEG$? The diagram is not to scale.



- a. $m\angle FEG = 122$, $m\angle HEG = 58$ b. $m\angle FEG = 58$, $m\angle HEG = 132$ c. $m\angle FEG = 68$, $m\angle HEG = 122$
d. $m\angle FEG = 58$, $m\angle HEG = 122$

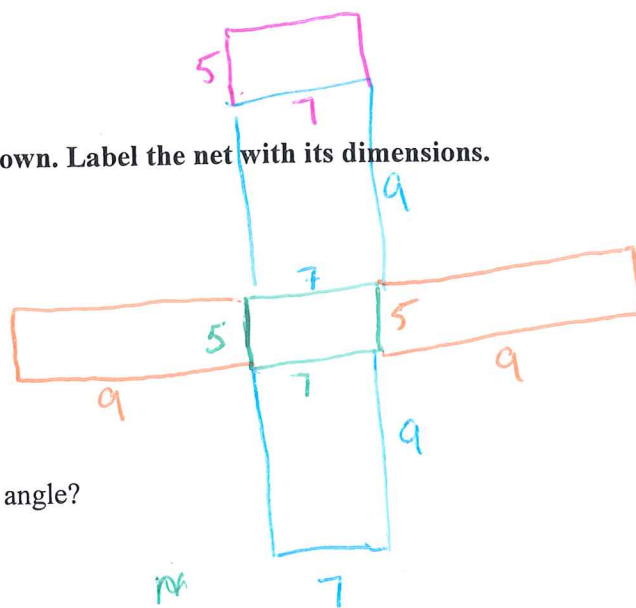
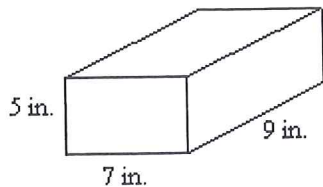
Name: _____

ID: A

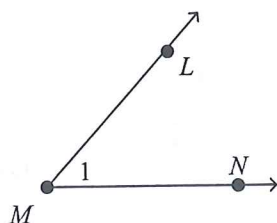
Short Answer

Draw a net for the figure shown. Label the net with its dimensions.

12.



13. What are three names for the angle?



$\angle 1$
 $\angle LMN$
 $\angle NML$