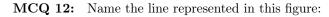
ELEMENTS OF GEOMETRY

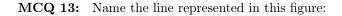
Ex 6: Using a pencil, draw two points and label them A and B. A POINT A.1 COUNTING NUMBER OF POINTS Ex 1: Count the points in the figure. **Ex 7:** Using a pencil, draw three points and label them A, B, $\bullet B$ and C. $A \bullet$ $\overset{\bullet}{C}$ B LINES, SEGMENTS AND RAYS points **B.1 RECOGNIZING** Ex 2: Count the points in the figure. MCQ 8: Which term describes this figure? $\bullet F$ $E \bullet$ Choose one answer: \Box Line points $\Box~$ Line segment **Ex 3:** Count the points in the figure. \Box Ray GMCQ 9: Which term describes this figure? Choose one answer: $E \bullet$ $\bullet F$ \Box Line \Box Line segment \Box Ray $\overset{\bullet}{H}$ MCQ 10: Which term describes this figure? points Choose one answer: \Box Line **Ex 4:** Count the points in the figure. \Box Line segment $I \bullet$ \Box Ray point MCQ 11: Which term describes this figure? A.2 DRAWING POINTS **Ex 5:** Using a pencil, draw a point and label it A. Choose one answer: \Box Line \Box Line segment \Box Ray







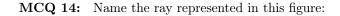
- $\Box \overline{EF}$
- $\Box \overleftarrow{EF}$
- $\Box \overrightarrow{EF}$





Choose one answer:

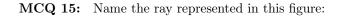
- $\Box \overline{CE}$
- $\Box \overleftarrow{CE}$
- ____
- $\Box \overrightarrow{CE}$





Choose one answer:

- $\Box \overline{CE}$
- $\Box \overleftarrow{CE}$
- $\Box \overrightarrow{CE}$
- $\Box \ \overrightarrow{EC}$



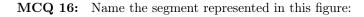


Choose one answer:

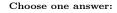


- $\Box \overleftarrow{EC}$
- $\Box \overrightarrow{CE}$





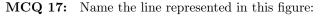






 $\Box \overleftarrow{EC}$

 $\Box \overrightarrow{EC}$





Choose all correct answers:



B.3 DRAWING LINES, SEGMENTS AND RAYS

Ex 18: Using a ruler and pencil, draw a straight line passing through points *A* and *B*. Label both points clearly.

Ex 19: Using a ruler and pencil, draw a line segment passing through points *A* and *B*. Label both points clearly.

Ex 20: Using a ruler and pencil, draw a ray passing through points *A* and *B*. Label both points clearly.

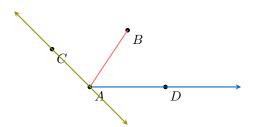
B.4 CHECKING A CONSTRUCTION PROGRAM

MCQ 21: A teacher gives these construction steps:

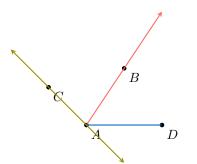
- 1. Draw points A, B, C, and D
- 2. Draw segment \overline{AB}
- 3. Draw line \overrightarrow{AC}
- 4. Draw ray \overrightarrow{AD}

Which student followed the instructions correctly?Select the correct answer:

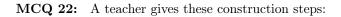
□ Hugo



(°±°)



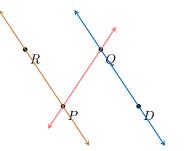




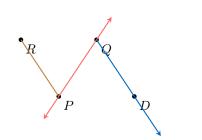
- 1. Draw points P, Q, R, and D
- 2. Draw segment \overline{PR}
- 3. Draw line \overleftarrow{PQ}
- 4. Draw ray \overrightarrow{QD}

Which student followed the instructions correctly?Select the correct answer:

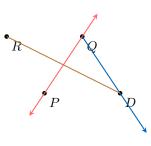
 \Box Hugo



 \Box Louis



 \Box Vincent

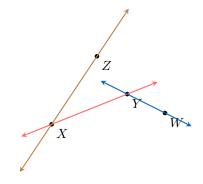


MCQ 23: A teacher gives these construction steps:

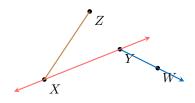
- 1. Draw points X, Y, Z, and W
- 2. Draw segment \overline{XZ}
- 3. Draw line \overleftarrow{XY}
- 4. Draw ray \overrightarrow{YW}

Which student followed the instructions correctly? Select the correct answer:

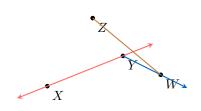
□ Hugo



 \Box Louis

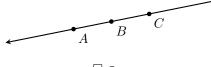


 \Box Vincent



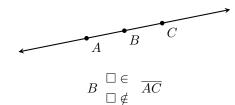
B.5 BUILDING GEOMETRIC FIGURES

Ex 24: Using a ruler and pencil, draw three points A, B, and C, and the straight line \overrightarrow{AB} .



$$C \begin{array}{c} \Box \in \\ \Box \notin \end{array} \overline{BA}$$

Ex 31: Does point B lie on the line segment between A and C?



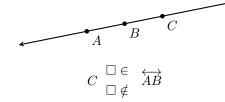
Ex 25: Using a ruler and pencil, draw three points A, B, and C, and the line segment \overline{AC} .

Ex 26: Using a ruler and pencil, draw three points A, B, and C, and the line segments \overline{AB} , \overline{BC} , and \overline{CA} .

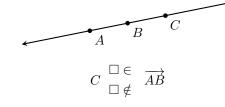
C ELEMENT RELATION

C.1 IDENTIFYING POINTS ON GEOMETRIC FIGURES

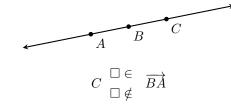
Ex 27: Does point C lie on the line through points A and B?



Ex 28: Does point C lie on the ray from A through B?

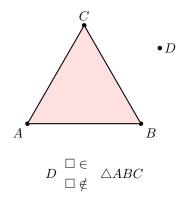


Ex 29: Does point C lie on the ray from B through A?

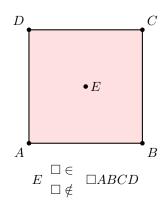


Ex 30: Does point C lie on the line segment between B and A?

Ex 32: Does point D lie on triangle ABC?



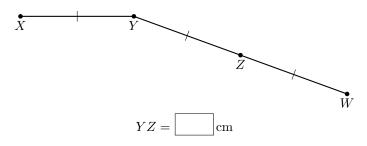
Ex 33: Does point *E* lie on square *ABCD*?



D LENGTH

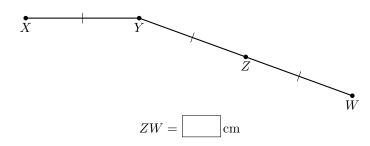
D.1 USING TICK MARKS TO CALCULATE LENGTHS

Ex 34: The segment \overline{XY} measures 3 cm. Use the tick marks to find the length of segment \overline{YZ} .

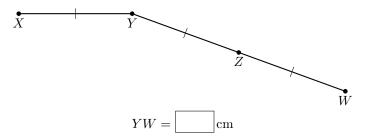


Ex 35: The segment \overline{XY} measures 3 cm. Use the tick marks to find the length of segment \overline{ZW} .



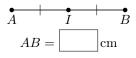


Ex 36: The segment \overline{XY} measures 3 cm. Use the tick marks to find the length of segment \overline{YW} .

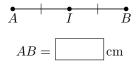


D.2 CALCULATE LENGTHS USING A MIDPOINT

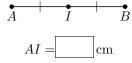
Ex 37: The segment \overline{AI} measures 3 cm. Use the tick marks to find the length of segment \overline{AB} .



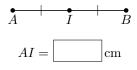
Ex 38: The segment \overline{IB} measures 10 cm. Use the tick marks to find the length of segment \overline{AB} .



Ex 39: The segment \overline{AB} measures 10 cm. Use the tick marks to find the length of segment \overline{AI} .

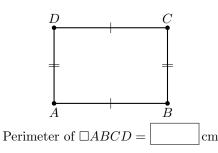


Ex 40: The segment \overline{AB} measures 20 cm. Use the tick marks to find the length of segment \overline{AI} .

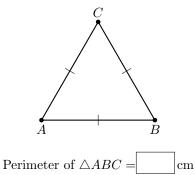


D.3 USING TICK MARKS TO FIND PERIMETER

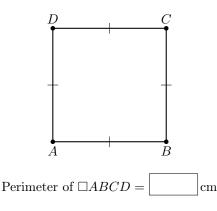
Ex 41: The segment \overline{AB} measures 3 cm and segment \overline{BC} measures 2 cm. Use the tick marks to find the perimeter of rectangle ABCD.



Ex 42: The segment \overline{AB} measures 3 cm. Use the tick marks to find the perimeter of triangle ABC.

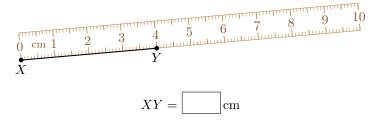


Ex 43: The segment \overline{AB} measures 3 cm. Use the tick marks to find the perimeter of square ABCD.

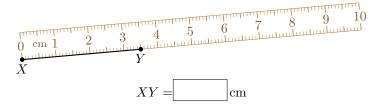


D.4 MEASURING WITH A RULER

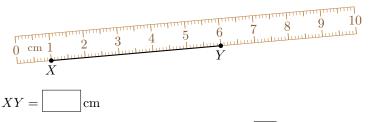
Ex 44: Measure the length of segment \overline{XY} using the ruler shown.



Ex 45: Measure the length of segment \overline{XY} using the ruler shown.



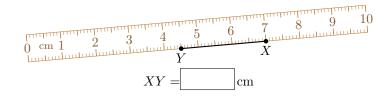
Ex 46: Measure the length of segment \overline{XY} using the ruler shown.



Ex 47: Measure the length of segment \overline{XY} using the ruler shown.

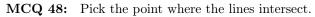
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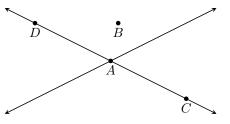
(+)



E INTERSECTION POINT

E.1 PICKING THE INTERSECTION POINTS

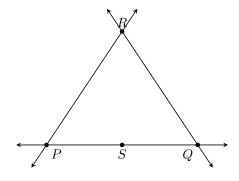




Choose one point:

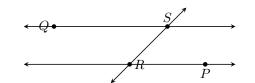
- $\Box A$
- $\Box B$
- _ _
- $\Box C$
- $\Box D$

MCQ 49: Pick the points where the lines intersect.



Choose all correct points:

- $\Box P$
- $\Box Q$
- $\Box R$
- $\Box S$



MCQ 50: Pick the points where the lines intersect.

Choose all correct points:

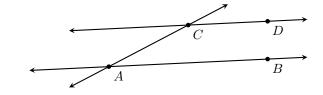
- $\Box P$
- $\Box Q$
- $\Box R$
- $\Box S$

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F PARALLEL LINES

F.1 IDENTIFYING PARALLEL LINES

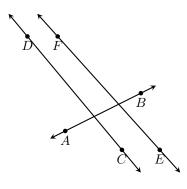
MCQ 51:



Choose the true statement:

- $\Box \overrightarrow{AB}$ is parallel to \overrightarrow{AC} .
- $\Box \overleftrightarrow{CD}$ is parallel to \overleftrightarrow{AC} .
- $\Box \overleftrightarrow{CD}$ is parallel to \overleftrightarrow{AB} .

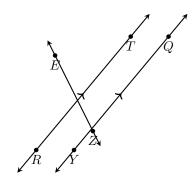
MCQ 52:



Choose the true statement:

- $\Box \overleftrightarrow{AB}$ is parallel to \overleftrightarrow{DC} .
- $\Box \overrightarrow{DC}$ is parallel to \overrightarrow{FE} .
- $\Box \overleftrightarrow{AB}$ is parallel to \overleftrightarrow{FE} .

MCQ 53:



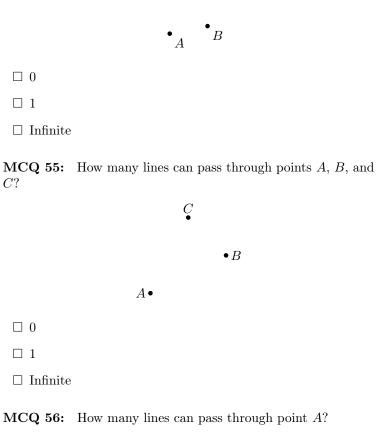
Choose the true statement:

- $\Box \overleftarrow{ZE}$ is parallel to \overrightarrow{RT} .
- $\Box \overleftarrow{ZE}$ is parallel to \overleftarrow{YQ} .
- $\Box \overleftarrow{RT}$ is parallel to \overleftarrow{YQ} .



F.2 COUNTING POSSIBLE LINES

MCQ 54: How many lines can pass through points A and B?



• A

- $\Box 0$
- \Box 1
- \Box Infinite

MCQ 57: Are the blue thick lines parallel?

