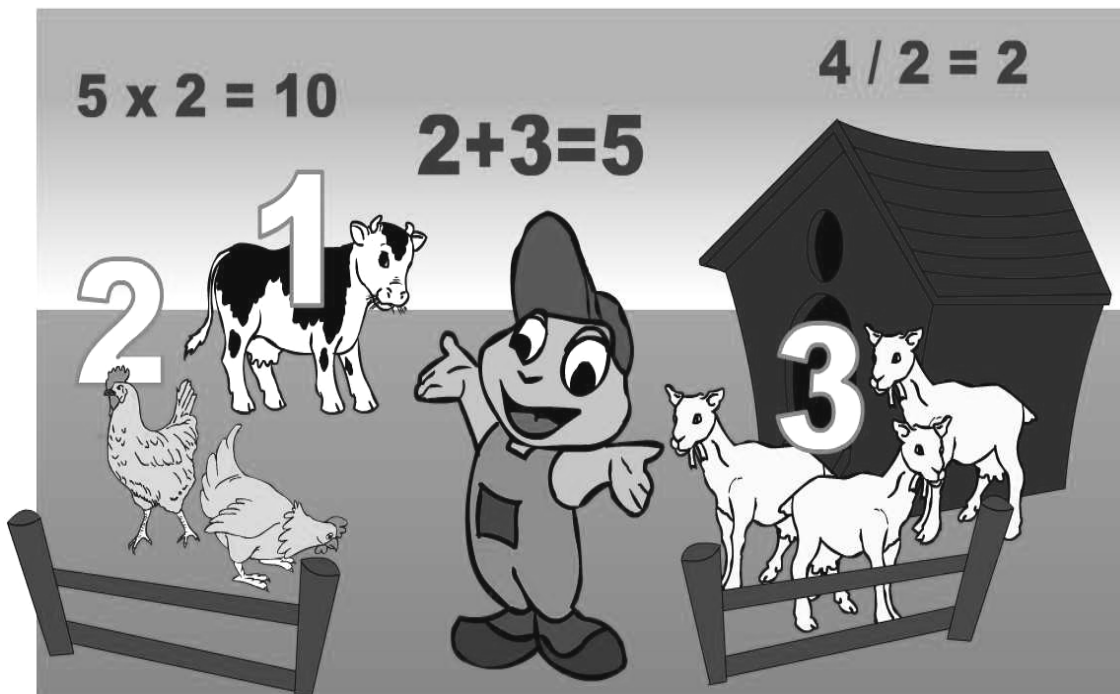


# MATH

## VISUALIZE AND IDENTIFY CONGRUENT LINE SEGMENTS





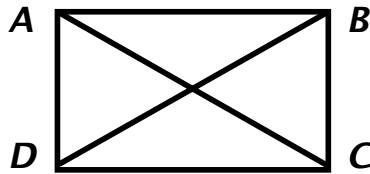




## Try This

- A. Write **YES** if the line segments are congruent and **NO** if not. Use the figure below.

1.  $\underline{AD} \stackrel{|||}{=} \underline{BD}$       4.  $\underline{AD} \stackrel{|||}{=} \underline{CD}$   
 \_\_\_\_\_  
 2.  $\underline{DB} \stackrel{|||}{=} \underline{AB}$       5.  $\underline{CB} \stackrel{|||}{=} \underline{DA}$   
 \_\_\_\_\_  
 3.  $\underline{AC} \stackrel{|||}{=} \underline{DC}$       \_\_\_\_\_  
 \_\_\_\_\_

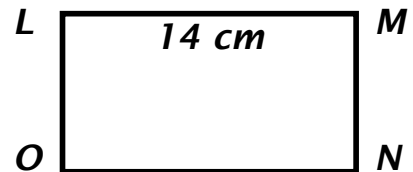


6. Square ABCD has 4 equal sides. Which sides are congruent?  
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Given:  $\overline{LM} \cong \overline{ON}$

7. If the measured of  $\overline{LM}$  is 14 cm, What is the measure of  $\overline{ON}$  ?



8. How many parallel sides are congruent?

**Performance:**  marks

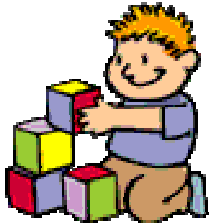
0 - 3  marks      4 - 6  marks      7 - 8  marks

If you score 7 - 8, you are now ready for the next activity. If not, find out why you missed there.



## Remember

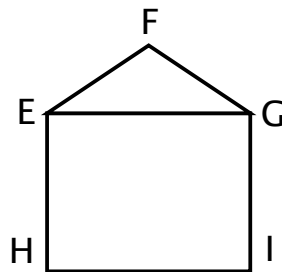
*Line Segments* are congruent if they have the same length.



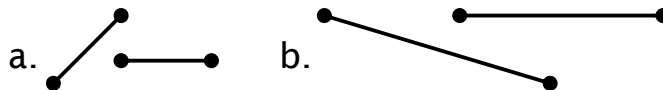
## Do This

A. Name three pairs of congruent sides.

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_



4. Which of these are not congruent?



5. How many congruent line segments are there?

\_\_\_\_\_

**Performance:**  marks

0 - 3  marks

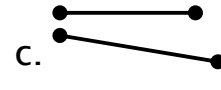
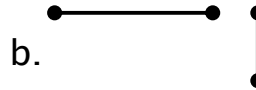
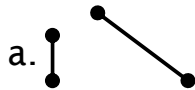
4 - 6  marks

7 - 8  marks

If you score 4 - 5, move on to Posttest. If you score 3 below, take set B test.

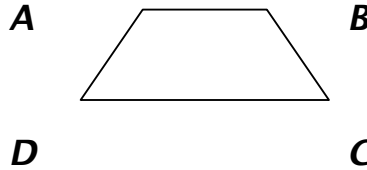
B. Answer the following.

1. Pick out the congruent line segments.



• Use the figure at the right. Write Yes or No.

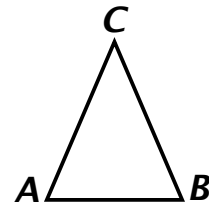
2.  $\overline{AB} \cong \overline{DC}$



3.  $\overline{AD} \cong \overline{BC}$

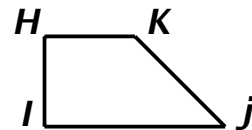
4. If the measure of AC is 24 cm, what is the measure of BC?

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5. Name the congruent sides of the figure at the right.

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**Performances:** marks

0 - 1 marks

2 - 3 marks

4 - 5 marks

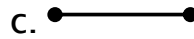
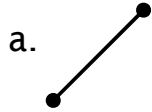
If you score 4 -5, take the posttest.



## Posttest

A. Answer the following.

\_\_\_1. Pick out the congruent figures.



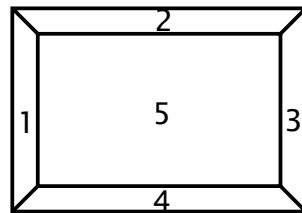
- Put a   ✓   for congruent and an   X   for not congruent.

\_\_\_2.

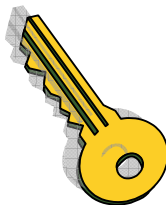
\_\_\_3.



\_\_\_4. Find 2 pairs of congruent trapezoids.



# Answer Key



## Pretest

1. congruent
2. a and c
3. NC
4. C
5.  $\angle ABC$  and  $\angle DCB$

## Discussion Exercises

1. 2
2. 40 centimeters
3. The lengths are of the same sizes or they are the same.



## Try This

1. Yes
2. No
3. No
4. No
5. Yes
6. All sides are congruent

$$\overline{AB} \cong \overline{CD}$$

$$\overline{AC} \cong \overline{BD}$$

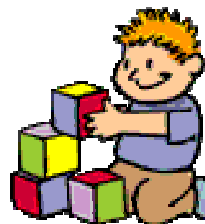
Or

$$\overline{AB} \cong \overline{BD}$$

$$\overline{DC} \cong \overline{CA}$$

7. 14 cm
8. 2

## Do This



A.

1. Sides E, F and G, F
2. Sides E, G and H, I
3. Sides E, H and G, I
4. B
5. 3

B.

1. C
2. No
3. Yes
4. 24 cm

$$5. \overline{HI} \cong \overline{HK}$$

## Post-test



1. a and c
2. X
3.  $\checkmark$
4. 1 and 3; and 2 and 4