

## Quiz: Congruence

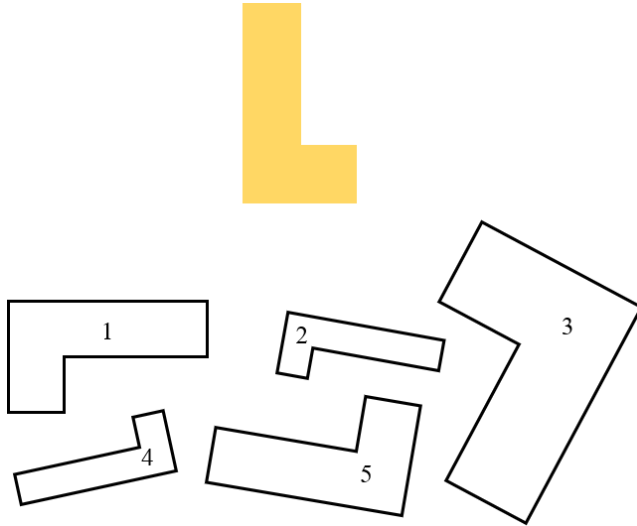
### Section: Congruence

#### Sub-section: Congruent and Congruent Triangles (SSS)

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Choose the correct answer.

1.



Which of these shapes are congruent to the yellow one?

(Understand, MA 2.2 G.8/4)

- A. Number 1 and 2
- B. Number 1 and 5**
- C. Number 1, 3 and 4
- D. Number 2, 4 and 5

Solution Number 1 and 5

Geometric figures are congruent if they are the same size and shape.

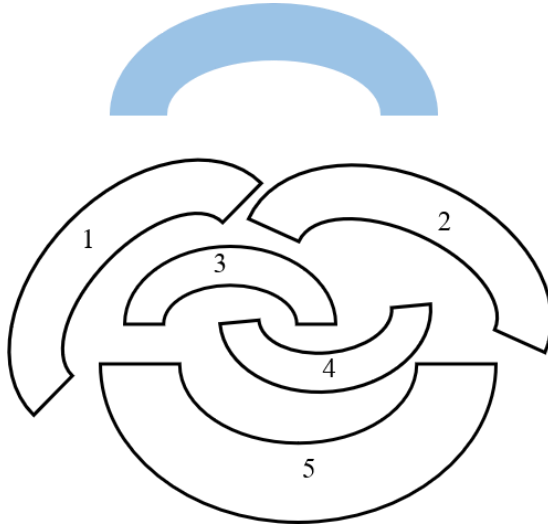
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2.



Which of these shapes are congruent to the blue one?

(Understand, MA 2.2 G.8/4)

**A. Number 1 and 2**

B. Number 1 and 5

C. Number 1, 3 and 4

D. Number 2, 4 and 5

Solution Number 1 and 2

Geometric figures are congruent if they are the same size and shape.

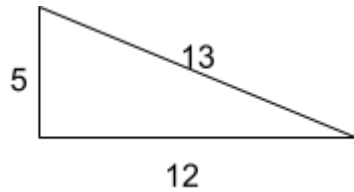
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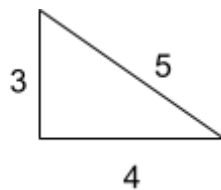
3.



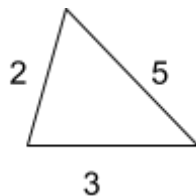
Which one of the triangles above is congruent to it?

(Understand, MA 2.2 G.8/4)

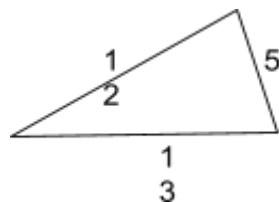
A.



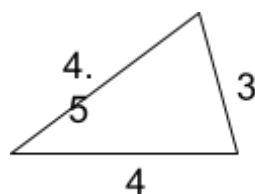
B.



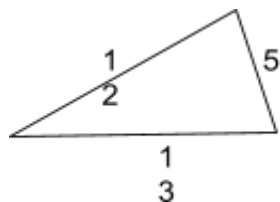
C.



D.



Solution



Geometric figures are congruent if they are the same size and shape.

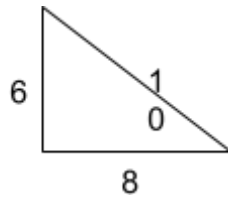
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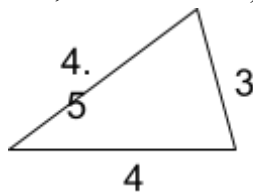
4.



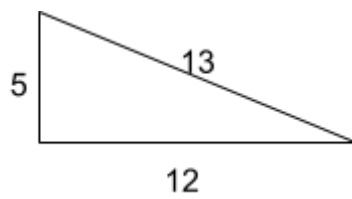
Which one of the triangles above is congruent to it?

(Understand, MA 2.2 G.8/4)

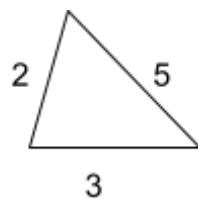
A.



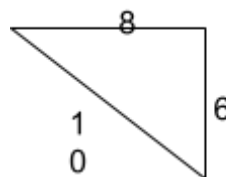
B.



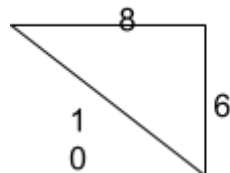
C.



**D.**



Solution



Geometric figures are congruent if they are the same size and shape.

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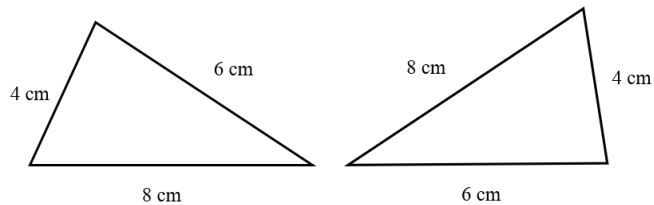
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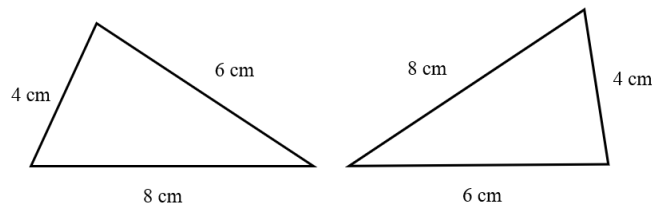
5. What postulate can be used to prove that the triangles below are congruent?

(Understand, MA 2.2 G.8/4)

- A. AAS
- B. ASA
- C. SAS
- D. SSS**



Solution

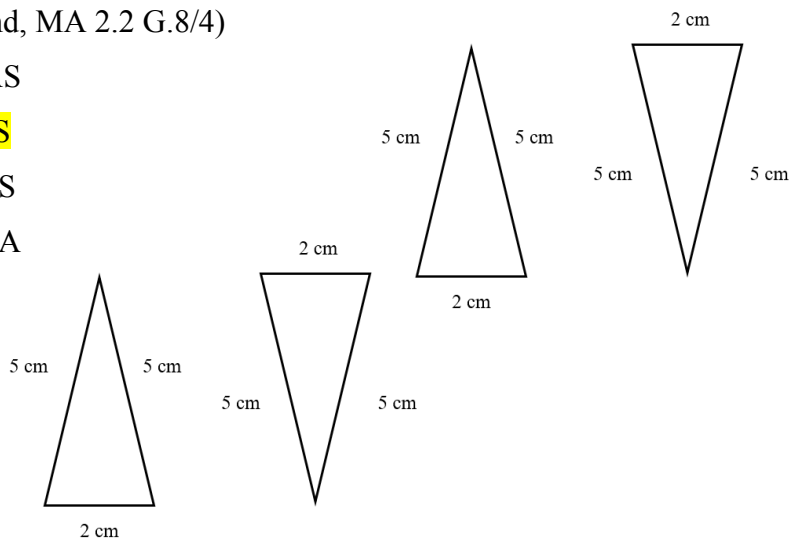


Def. of SSS: If all three sides of a triangle are equivalent to the corresponding three sides of another triangle, then the triangles are congruent.

6. What postulate can be used to prove that the triangles below are congruent?

(Understand, MA 2.2 G.8/4)

- A. AAS
- B. SSS**
- C. SAS
- D. ASA



Solution

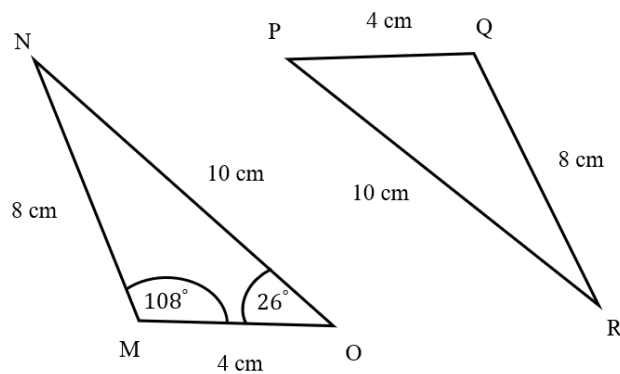
Def. of SSS: If all three sides of a triangle are equivalent to the corresponding three sides of another triangle, then the triangles are congruent.

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7.



In the figure above, what is the measures of  $\hat{PQR}$  ?

(Understand, MA 2.2 G.8/4)

- A.  $26^\circ$
- B.  $46^\circ$
- C.  $108^\circ$
- D.  $134^\circ$

Solution  $108^\circ$

$Length\ of\ MN = Length\ of\ QR$

$Length\ of\ NO = Length\ of\ RP$

$Length\ of\ OM = Length\ of\ PQ$

So,  $\triangle MNO \cong \triangle QRP$  (SSS)

Then  $\hat{OMN} = \hat{PQR}$

Since  $\hat{OMN} = 108^\circ$

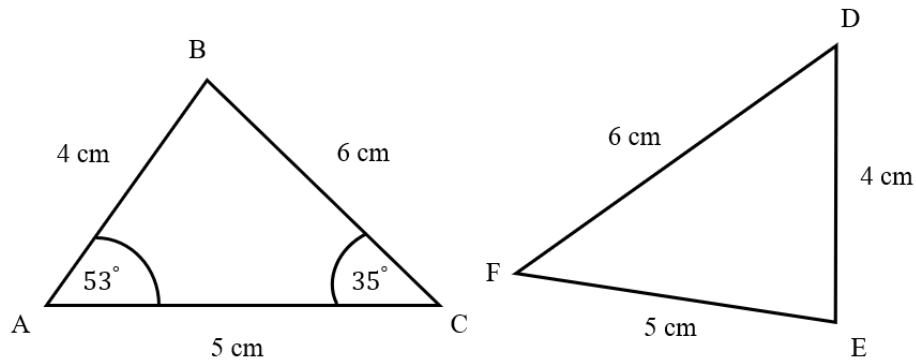
Hence  $\hat{PQR} = 108^\circ$

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8.



In the figure above, what is the measures of  $\hat{EFD}$  ?

(Understand, MA 2.2 G.8/4)

A.  $35^\circ$

B.  $53^\circ$

C.  $88^\circ$

D.  $92^\circ$

Solution  $35^\circ$

$Length\ of\ AB = Length\ of\ ED$

$Length\ of\ BC = Length\ of\ DF$

$Length\ of\ CA = Length\ of\ FE$

So,  $\triangle ABC \cong \triangle EDF$  (SSS)

Then  $\hat{ACB} = \hat{EDF}$

Since  $\hat{ACB} = 35^\circ$

Hence  $\hat{EFD} = 35^\circ$