

4.45

TRIANGLE PROOFS

4. What is the sum of the mean, median, and mode of the numbers 2, 3, 0, 3, 1, 4, 0, 3?

- (A) 6.5 (B) 7 (C) 7.5 (D) 8.5 (E) 9

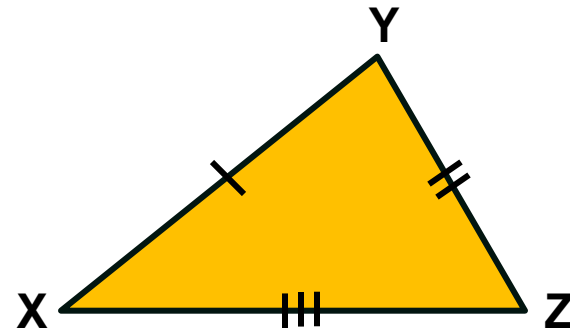
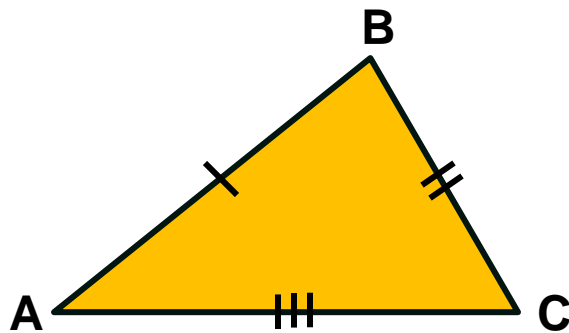
5. Alice needs to replace a light bulb located 10 centimeters below the ceiling in her kitchen. The ceiling is 2.4 meters above the floor. Alice is 1.5 meters tall and can reach 46 centimeters above the top of her head. Standing on a stool, she can just reach the light bulb. What is the height of the stool, in centimeters?

- (A) 32 (B) 34 (C) 36 (D) 38 (E) 40



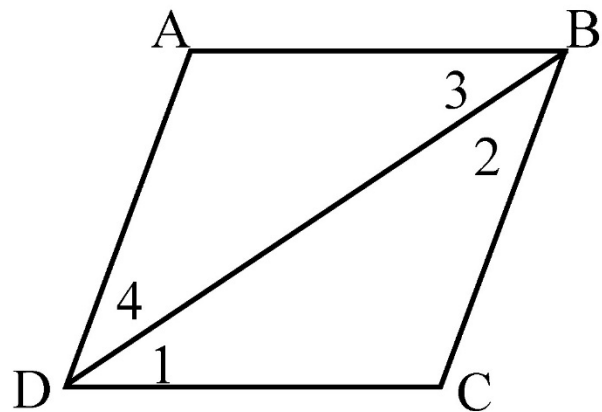
C
P
C
T
C





Once you find that triangles are congruent, you can prove that other parts of the triangle are congruent that were not originally given.

Flow Chart Proofs



Given: $\overline{AB} \cong \overline{CD}$; $\overline{BC} \cong \overline{DA}$

Prove: $\angle 4 \cong \angle 2$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

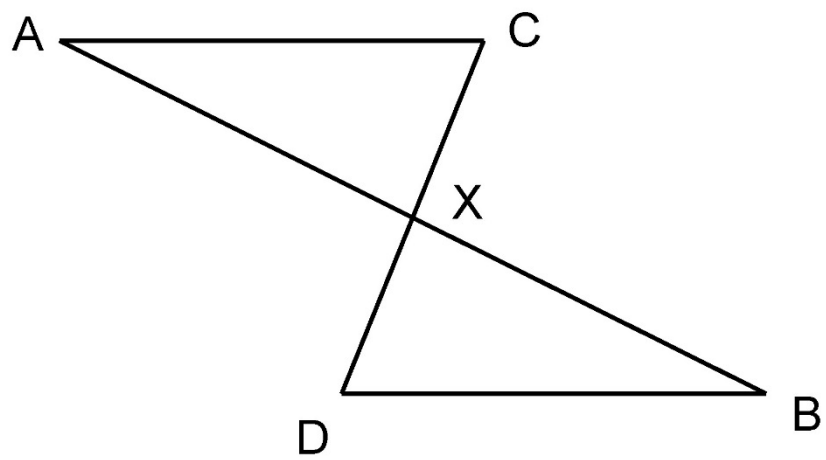
7. _____ \cong _____

8. _____

9. _____

10. _____

Flow Chart Proofs



Given: $\overline{AX} \cong \overline{BX}$; $\overline{CX} \cong \overline{DX}$
Prove: $\overline{AC} \cong \overline{BD}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

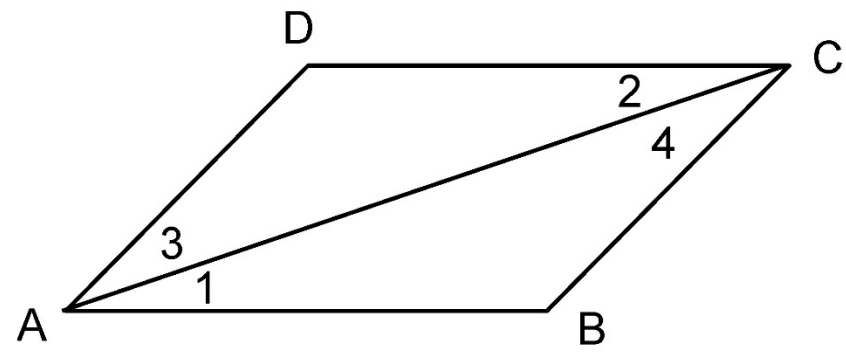
7. _____ \cong _____

8. _____

9. _____

10. _____

Flow Chart Proofs



Given: $\angle 3 \cong \angle 4$; $\overline{BC} \cong \overline{DA}$

Prove: $\overline{AB} \parallel \overline{DC}$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____ \cong _____

8. _____

9. _____

10. _____

11. _____

12. _____