

Cumulative Review

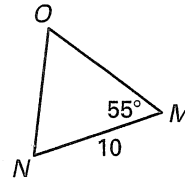
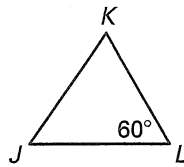
For use after Chapters 1-4

In the diagram, $\triangle JKL \cong \triangle MNO$. Complete the statement. (4.2)

15. $\angle N \cong$ _____ ?

16. $JK =$ _____ ?

17. $m\angle K =$ _____ ?

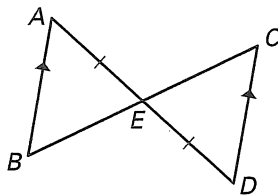


Write a two-column proof. (4.3 and 4.4)

18. Given: $\overline{AB} \parallel \overline{DC}$

$\overline{AE} \cong \overline{DE}$

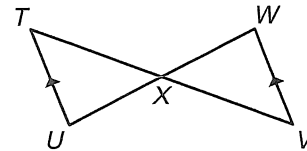
Prove: $\triangle ABD \cong \triangle DCE$



19. Given: X is the midpoint of \overline{UV} .

$\overline{TU} \parallel \overline{VW}$

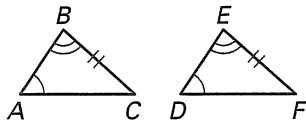
Prove: $\triangle TUX \cong \triangle VWX$



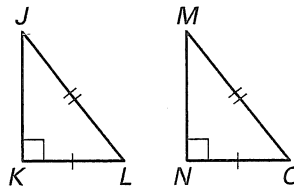
State the theorem used to prove the triangles are congruent.

(4.4, 4.6)

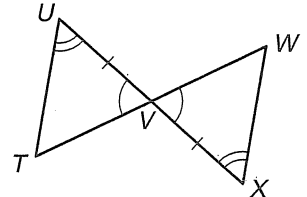
20.



21.



22.

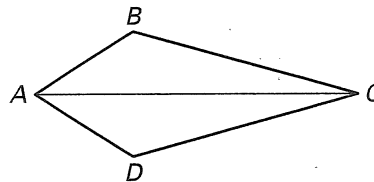


Write a two-column proof. (4.5)

23. Given: $\overline{AD} \cong \overline{AB}$

\overline{AC} bisects $\angle BAD$.

Prove: $\overline{BC} \cong \overline{DC}$



Place the figure in a coordinate plane. Use the distance formula to find the given information. (4.7)

24. Rectangle with length 8 units and width 6 units. Find the length of a diagonal.

25. Square with sides 5 units. Find the length of a diagonal to the nearest hundredth.