

Mid-Chapter Quiz

Lessons 4-1 through 4-4

1. **COORDINATE GEOMETRY** Classify $\triangle ABC$ with vertices $A(-2, -1)$, $B(-1, 3)$, and $C(2, 0)$ as scalene, equilateral, or isosceles. (Lesson 4-1)

2. **MULTIPLE CHOICE** Which of the following are the measures of the sides of isosceles triangle $QRST$? (Lesson 4-1)

A 17, 17, 15
B 15, 15, 16

C 14, 15, 14
D 14, 14, 16

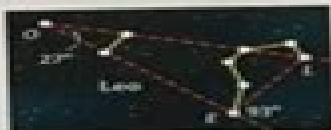
3. **ALGEBRA** Find x and the length of each side if $\triangle WXY$ is an equilateral triangle with sides $WX = 5x - 12$, $XY = 2x + 10$, and $WY = 4x - 1$. (Lesson 4-1)

Find the measure of each angle indicated. (Lesson 4-2)

4. $m\angle 1$
5. $m\angle 2$
6. $m\angle 3$



7. **ASTRONOMY** Leo is a constellation that represents a lion. Three of the brighter stars in the constellation form $\triangle LEQ$. If the angles have measures as shown in the figure, find $m\angle QLE$. (Lesson 4-2)



Find the measure of each numbered angle. (Lesson 4-2)

8. $m\angle 4$
9. $m\angle 5$
10. $m\angle 6$
11. $m\angle 7$



In the diagram, $\triangle RST \cong \triangle ABC$. (Lesson 4-3)



12. Find x .

13. Find y .

14. **ARCHITECTURE** The diagram shows an A-frame house with various points labeled. Assume that segments and angles that appear to be congruent in the diagram are congruent. Indicate which triangles are congruent. (Lesson 4-3)



15. **MULTIPLE CHOICE** Determine which statement is true given that $\triangle CBX \cong \triangle SML$. (Lesson 4-3)

F $\overline{BX} \cong \overline{SL}$
G $\overline{XC} \cong \overline{ME}$

H $\angle X \cong \angle S$
J $\angle XCB \cong \angle LSM$

16. **BRIDGES** A bridge truss is shown in the diagram below, where $AC \perp BD$ and B is the midpoint of AC . What method can be used to prove that $\triangle ABD \cong \triangle CBD$? (Lesson 4-4)



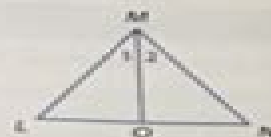
Determine whether $\triangle PQR \cong \triangle XYZ$. (Lesson 4-4)

17. $P(3, -5)$, $Q(11, 0)$, $R(1, 6)$, $X(5, 1)$, $Y(13, 6)$, $Z(3, 12)$
18. $P(-3, -3)$, $Q(-5, 1)$, $R(-2, 6)$, $X(2, -6)$, $Y(3, 3)$, $Z(5, -1)$
19. $P(8, 1)$, $Q(-7, -15)$, $R(9, -6)$, $X(5, 11)$, $Y(-10, -5)$, $Z(6, 4)$

20. **Write a two-column proof.** (Lesson 4-4)

Given: $\triangle LMN$ is isos. with $\overline{OM} \cong \overline{NO}$, and $\overline{MO}$ bisects $\angle LMN$.

Prove: $\triangle MLO \cong \triangle MNO$



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