

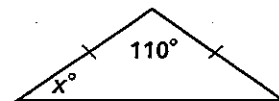
Cumulative Review

Chapters 1-4

For Exercises 1-12, choose the correct letter.

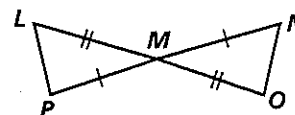
1. Find the value of x .

- A. 110 B. 70 C. 45 D. 35



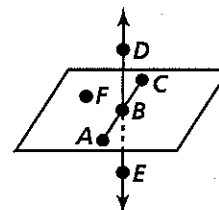
2. Why is $\triangle LMP \cong \triangle OMN$?

- F. ASA G. SAS H. AAS J. SSS



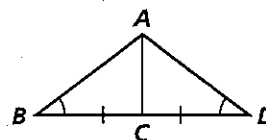
3. What is the intersection of \overleftrightarrow{DE} and plane FAC ?

- A. \overline{AC} B. \overleftrightarrow{DB} C. plane FAC D. point B



4. What can you conclude from the diagram?

- F. $\triangle ABC \cong \triangle ADB$ G. $\overline{AC} \cong \overline{CD}$
 H. $\triangle ABD$ is isosceles. J. $BD = 24$



5. What is the area of a rectangle with vertices $(4, 6)$, $(0, 3)$, $(3, -1)$, and $(7, 2)$?

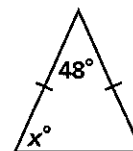
- A. 10 B. 15 C. 20 D. 25

6. Pentagon $LMNOP \cong TQRSV$. Which segment is congruent to \overline{TV} ?

- F. \overline{QR} G. \overline{LP} H. \overline{OP} J. \overline{LM}

7. What is the measure of x ?

- A. 66 B. 132 C. 48 D. 96

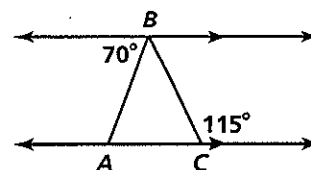


8. Which is true about all right triangles?

- F. Two sides are congruent. G. They have two acute angles.
 H. They have one obtuse angle. J. They have a second right triangle.

9. What is $m\angle ABC$?

- A. 5 B. 65 C. 45 D. 70



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Cumulative Review (continued)

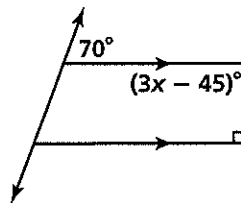
Chapters 1-4

10. If the midpoint of \overline{AB} is $(4, 3)$ and point A has coordinates $(-2, 6)$, what are the coordinates of point B ?

- F. $(1, 4.5)$ G. $(10, 0)$ H. $(3, 1.5)$ J. $(2, 9)$

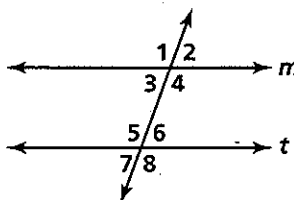
11. Find the value of x .

- A. 45 B. 35 C. 30 D. 25

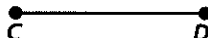


12. Which condition will prove that $m \parallel t$?

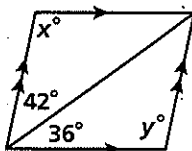
- F. $\angle 1 \cong \angle 3$ G. $\angle 7 \cong \angle 6$
 H. $m\angle 4 + m\angle 8 = 180$ J. $\angle 2 \cong \angle 6$



13. Construct the perpendicular bisector of \overline{CD} .



14. Find the measure of x and y .



15. The reasons in this proof are listed in the wrong order. Rewrite them in the correct order.

Given: $\overline{AE} \cong \overline{CD}$; $\angle AED \cong \angle CDE$

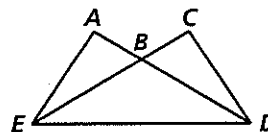
Prove: $\angle CED \cong \angle ADE$

Statements

1. $\overline{AE} \cong \overline{CD}$
2. $\angle AED \cong \angle CDE$
3. $\overline{ED} \cong \overline{DE}$
4. $\triangle AED \cong \triangle CDE$
5. $\angle CED \cong \angle ADE$

Reasons

- a. Reflexive Property
- b. SAS Theorem
- c. Given
- d. CPCTC Theorem
- e. Given



16. Rewrite the proof in Exercise 15 as a flow proof.

17. **Open-Ended** Write a biconditional. Then write the two conditionals that make up the biconditional.

18. What conditions *do not* prove two triangles are congruent?

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