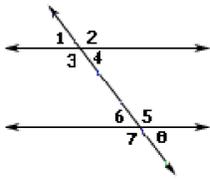
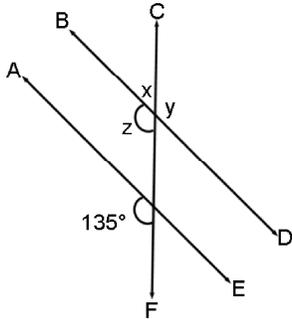


Math 8 Unit 4 Review - Angles and Volume

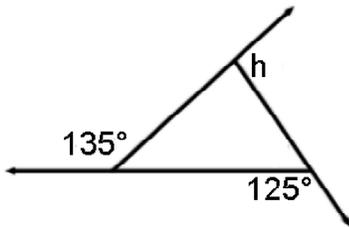
1. Identify a pair of **corresponding angles** in the figure.



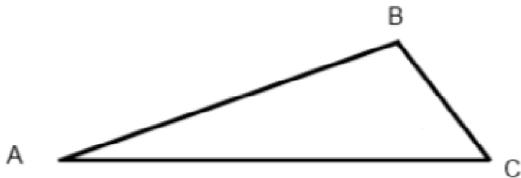
2. What is the measure of angle z?



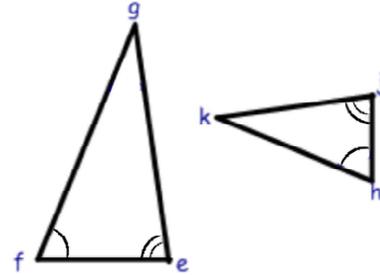
3. Find the measure of $\angle h$.



4. Two interior angles of triangle ABC measure 65° and 100° . What is the measure of $\angle A$?



5. Which statement best describes these two figures?:



6. Write the formulas for the volumes of each shape:

A. Cone: _____

B. Cylinder: _____

C. Sphere: _____

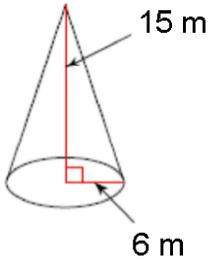
7. A pringles can has a **diameter** of 12 centimeters. If the height of the can is 25 centimeters, what is the volume of the can?

1. Write the formula:

2. Replace with Numbers

3. Solve & label

8. Find the volume of the cone.
 1. Write the formula:
 2. Replace with Numbers
 3. Solve & label



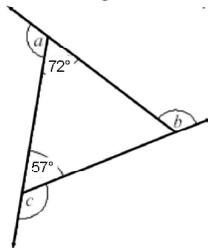
9. A globe has the radius of 3 feet. What is the volume of the globe?
 1. Write the formula:
 2. Replace with Numbers
 3. Solve & label

10. Find all three missing exterior angles. Then, find the sum of the exterior angles.

$m\angle a =$

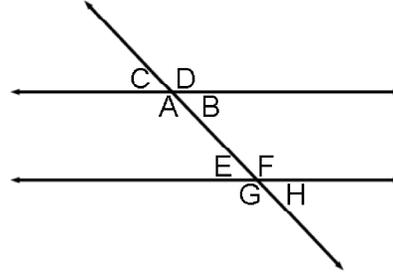
$m\angle b =$

$m\angle c =$



Sum of exterior angles _____

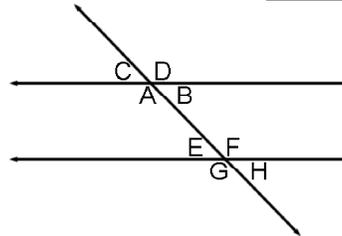
11. Give an example of the following pairs of angles.



- A) Corresponding _____
 B) Alternate Interior _____
 C) Alternate Exterior _____
 D) Same-Side Interior _____

12. The $m\angle H = 35^\circ$, Fill in the measure of all the angles. ($\frac{1}{2}$ point each)

Show your work.



$m\angle A =$ $m\angle E =$

$m\angle B =$ $m\angle F =$

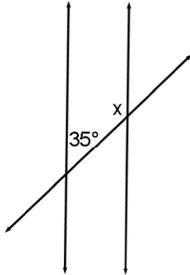
$m\angle C =$ $m\angle G =$

$m\angle D =$ $m\angle H =$

13. Identify the type of angle. Find the measure of $\angle x$.

A. Name of angle pair:

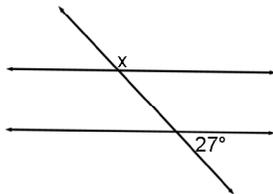
B. $\angle a =$ _____



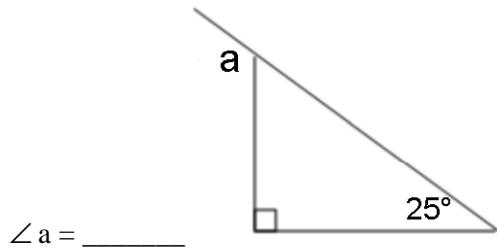
14. Find the measure of $\angle x$.

A. Show your work:

B. $\angle d =$ _____



15. Find the measure of $\angle a$. **Show your work.**



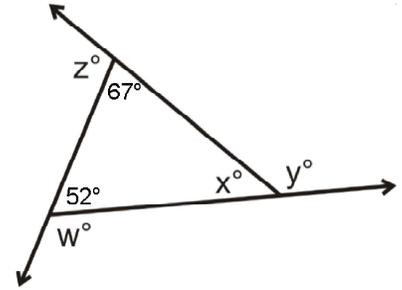
16. Find all the missing angles. Show your work.

$m\angle w =$

$m\angle x =$

$m\angle y =$

$m\angle z =$



17. .

a. Are the triangles similar? YES or NO

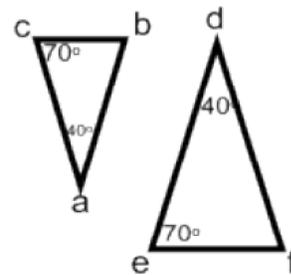
b. Explain how you know:

_____ (ex. "corresponding angles are congruent")

c. Write a similarity statement:

_____ (ex. " $\triangle STU \sim \triangle XYZ$ ")

Show your work.



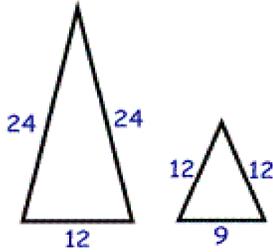
18. .
- Are the triangles similar? YES or NO
 - Explain how you know:

 (ex. "corresponding sides are proportional")
 (ex. "corresponding angles are congruent")

- Write a similarity statement:

 (ex. " $\triangle STU \sim \triangle XYZ$ ")

Show your work.

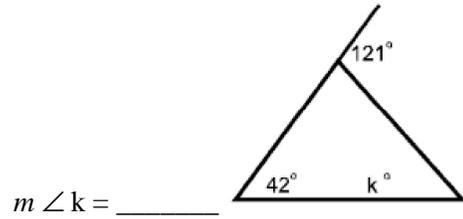


19. A can of chicken noodle soup (a cylinder) has a radius of 2 inches and a height of 6 inches.

What is the volume of the can?

- Write the formula:
- Replace with Numbers
- Solve & label

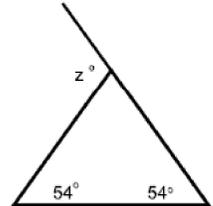
20. Find the measure of $\angle k$. Show your work.



21. Show your work.

- Find the sum of the two given angles.

- Find the missing angle.
 $m \angle ? =$ _____



- How are the two answers related?

