

# Practice Test

Geometry Assessment

Name \_\_\_\_\_

Measurement Topic: Attributes and Properties

Learning Target: Is skilled at describing the relationships among inscribed angles, tangent segments, radii, chords, arc lengths, and areas of sectors

Read each question carefully. Mark your answers clearly.

## 2 Level Questions

1. Label the following terms on the diagram below.

Radius

secant

central angle

diameter

inscribed angle

circumscribed angle

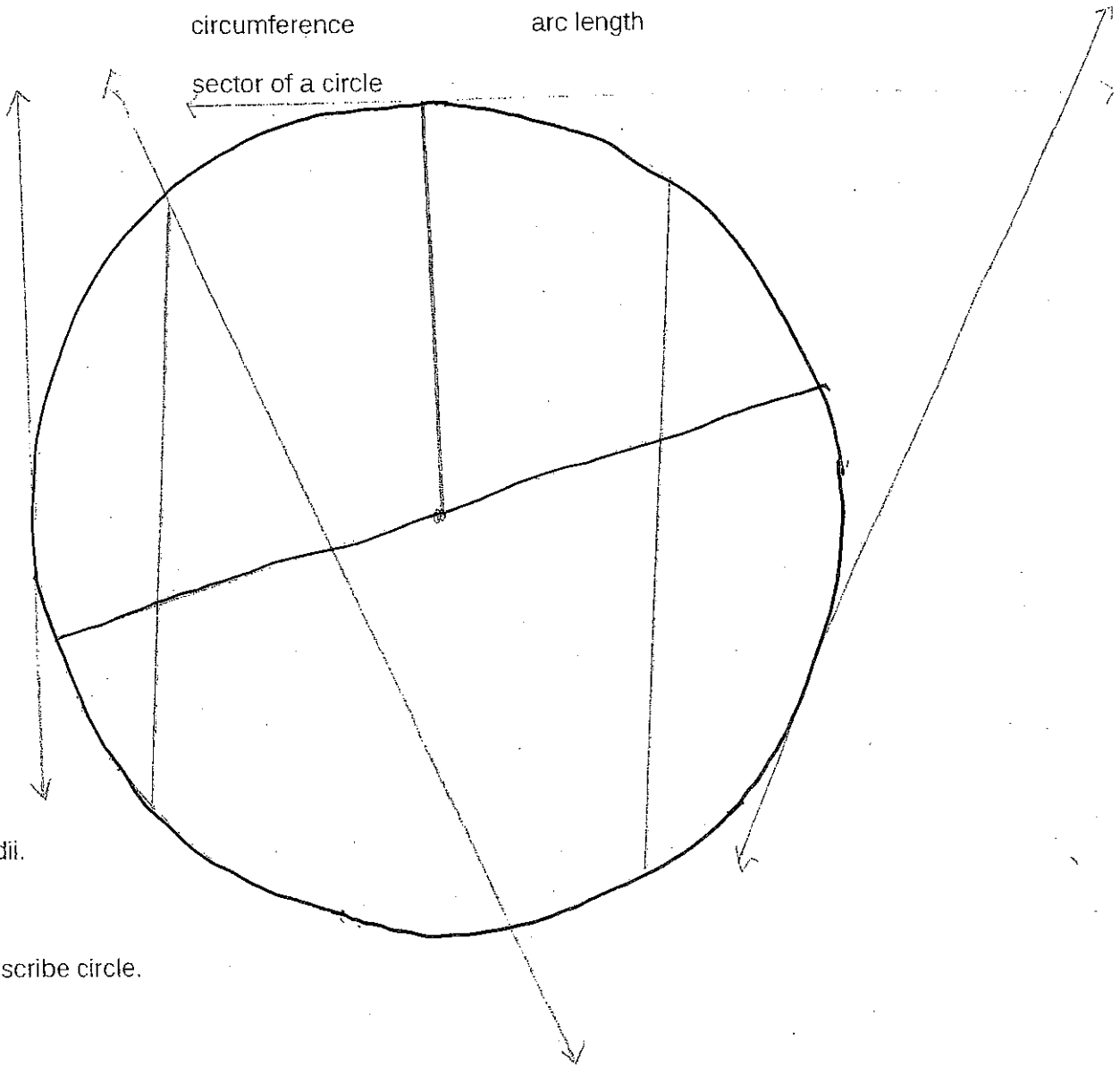
chord

circumference

arc length

tangent

sector of a circle



2. Define radii.

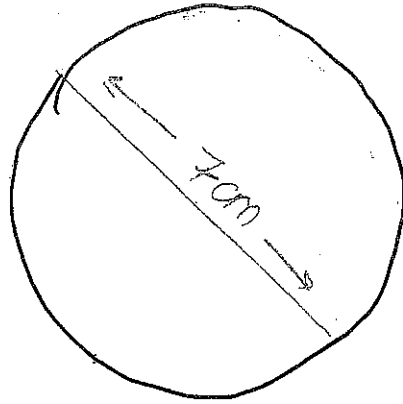
3. Define/describe circle.

4. Define/describe pi.

5. Define/describe radian measure.

Calculate the circumference of each circle below.

6

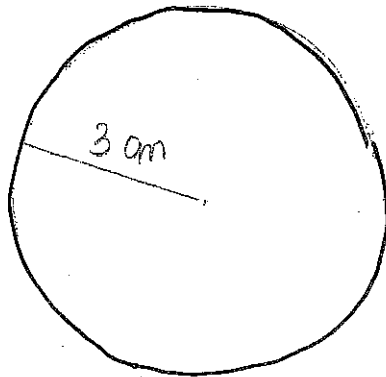


7. A circle with a radius of 3 cm.

Calculate the area of each circle below.

8. A circle with a diameter of 8 cm.

9.



12. Define/describe arc length.

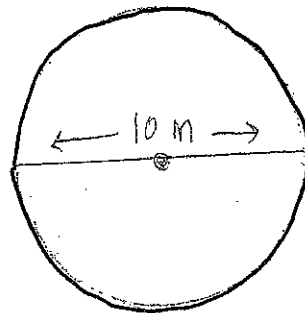
13. Define/describe sector of a circle.

14. Define pi.

15. Define radii.

Calculate the circumference of each circle below.

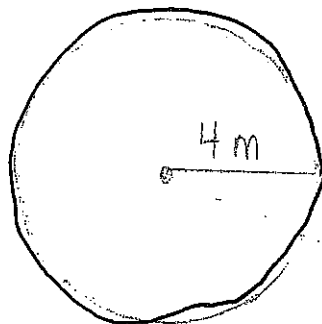
16.



17. A circle with a radius of 4 cm.

Calculate the area of each circle below.

18.



19. A circle with a diameter of 6 cm.

8

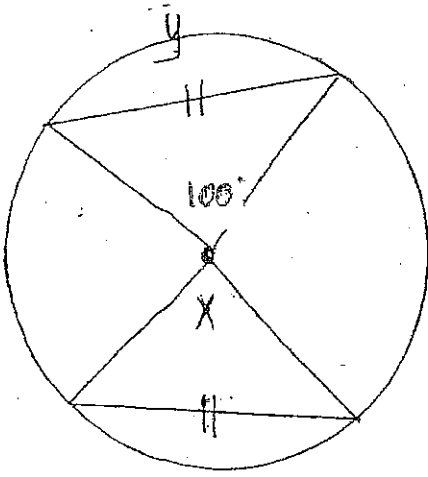
0

0

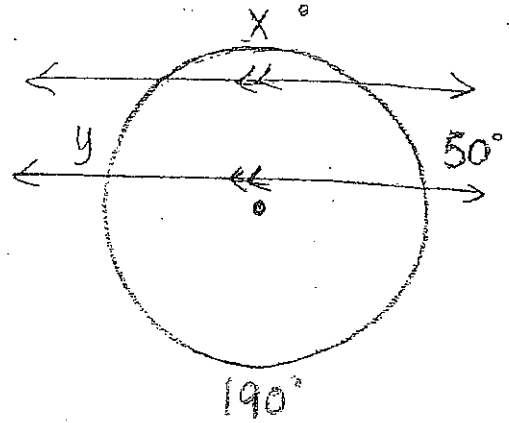
Is skilled at describing relationships among inscribed angles, chords, arc lengths and areas of sectors of circles.

Use the circle properties to solve each problem for the missing variables.  
(Pictures are not drawn to scale.)

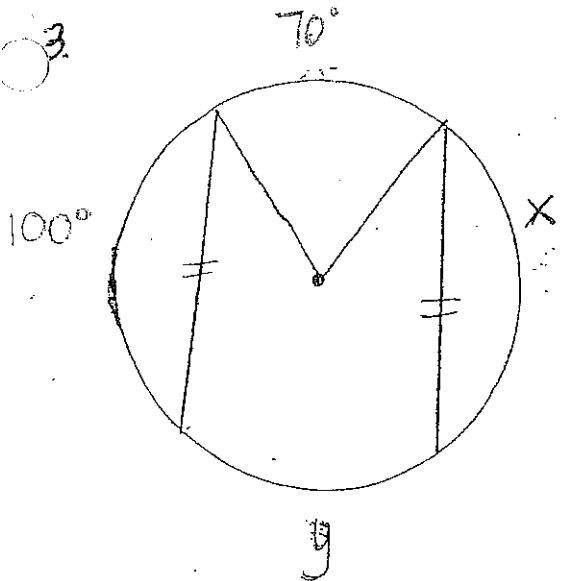
1.



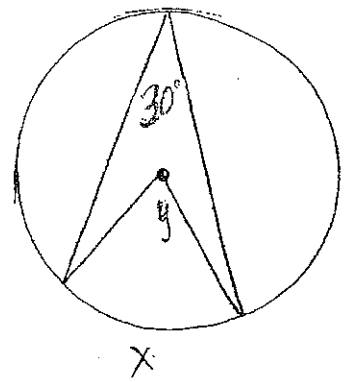
2.



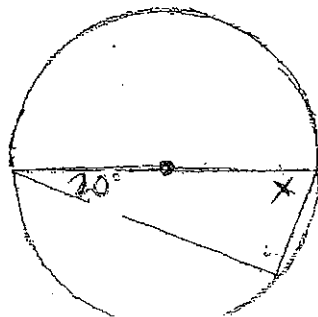
3.



4.

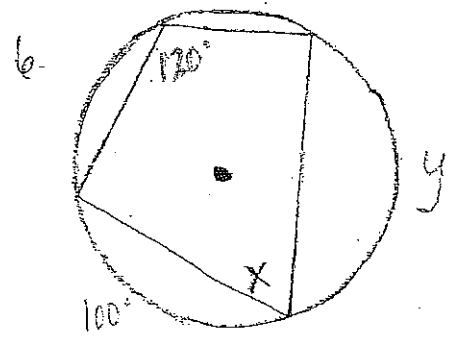
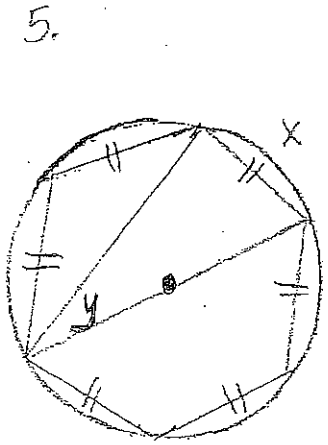
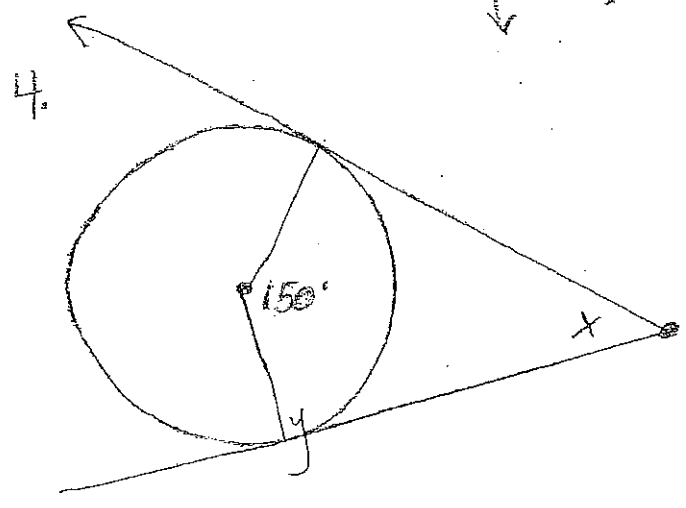
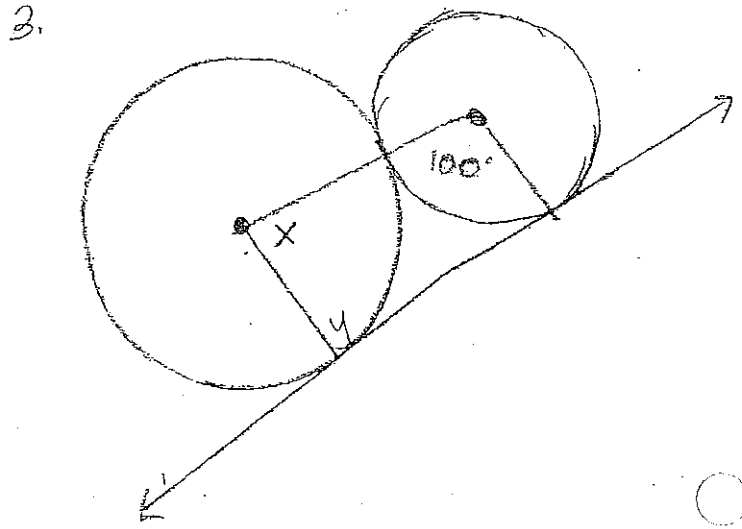
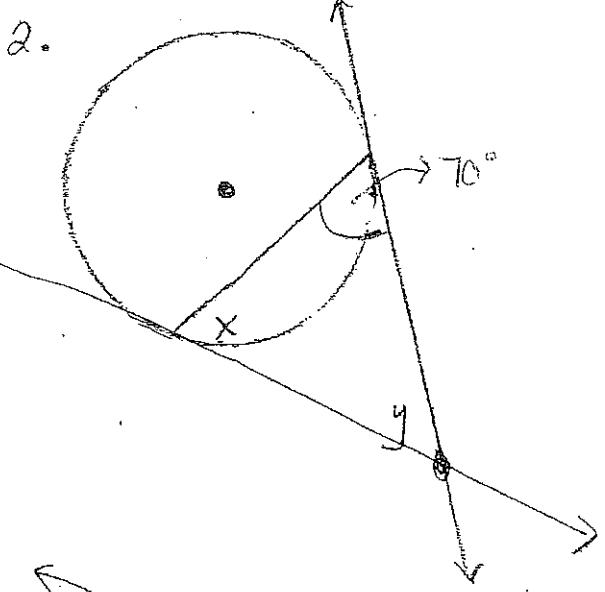
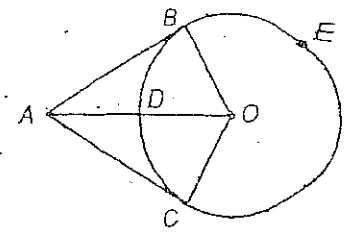


5.



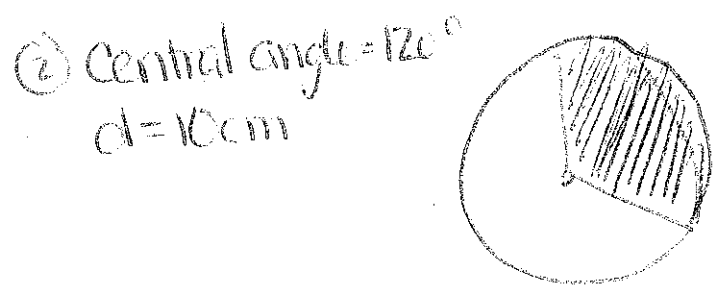
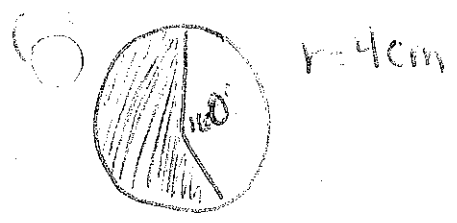
1. In circle O,  $\overline{AB}$  and  $\overline{AC}$  are tangents;  $m\angle OAB = 25^\circ$

- A. Find  $m\angle BOC$ . \_\_\_\_\_
- B. Find  $m\widehat{BEC}$ . \_\_\_\_\_
- C. Find  $m\angle OAC$ . \_\_\_\_\_
- D. Find  $m\angle OBA$ . \_\_\_\_\_

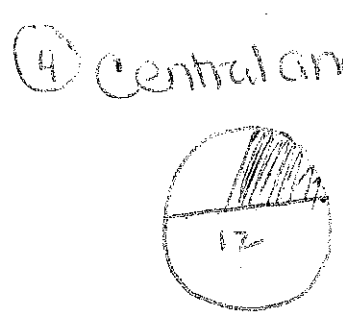
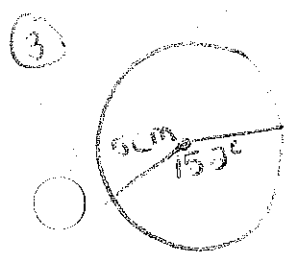


Level 1.

Find the area of the shaded sectors



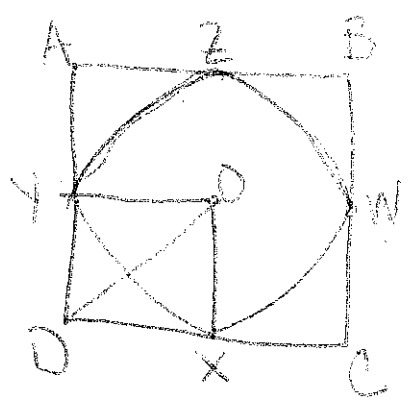
Find the arclength of the following sectors



ABCD is a square circumscribed about a circle,  $\overline{AB}$ ,  $\overline{BC}$ ,  $\overline{CD}$  and  $\overline{DA}$  are tangents to circle O at points Z, W, X, and Y. Radius = 4.

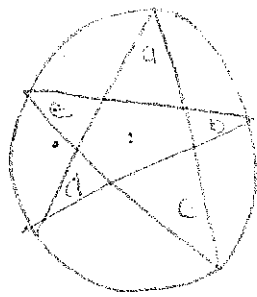
⑤ Find the perimeter of square ABCD. \_\_\_\_\_

⑥ Find  $m\angle CDX$ . \_\_\_\_\_



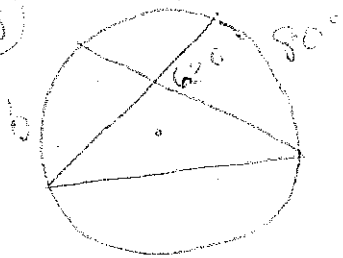
7) What is the

of



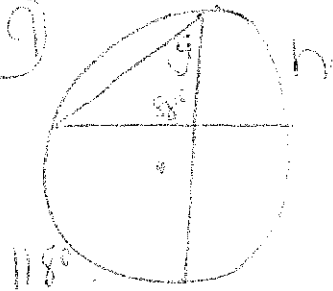
Sum: \_\_\_\_\_  
 Why?

8



b = \_\_\_\_\_

9



g = \_\_\_\_\_  
 h = \_\_\_\_\_

Solve for x, y, or z in each problem.

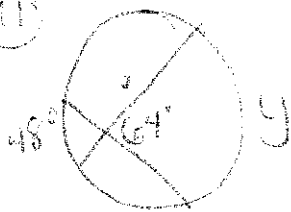
11



14



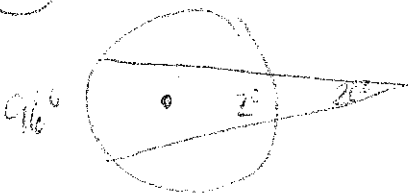
13



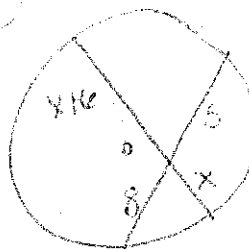
15



12



16



13





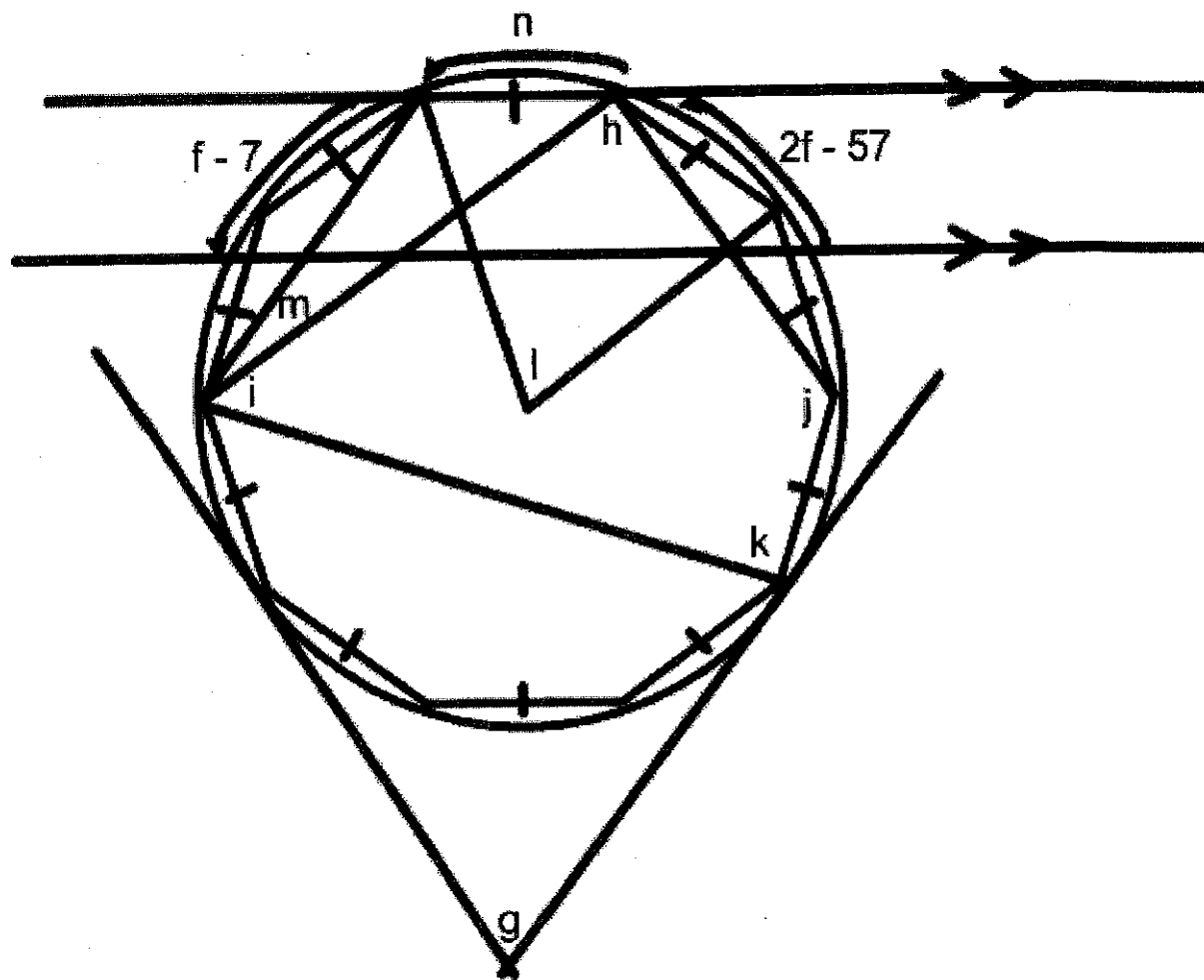
for credit

Geometry  
Surface Area and Volume Group Assessment

For credit, you must show all work and your answer must reflect the correct units!

Question 2:

Question Leader: \_\_\_\_\_



f: \_\_\_\_\_

k: \_\_\_\_\_

g: \_\_\_\_\_

l: \_\_\_\_\_

h: \_\_\_\_\_

m: \_\_\_\_\_

i: \_\_\_\_\_

n: \_\_\_\_\_

j: \_\_\_\_\_

8

0

0