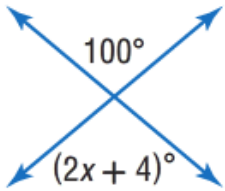


NAME: _____ Period: _____

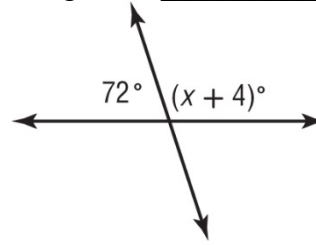
Intermediate 1 END OF YEAR Review #2

Determine if the following are supplementary, complementary, or vertical angles and solve for x.

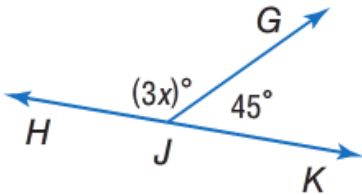
1. This angle is a _____



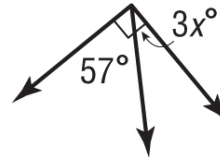
2. This angle is a _____



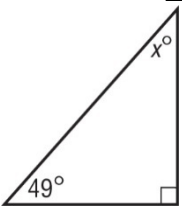
3. This angle is a _____



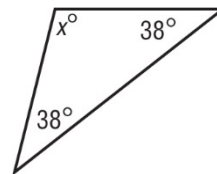
4. This angle is a _____



5. This is a _____ triangle.



6. This is a _____ triangle.



Write the following formulas.

7. Area of a triangle _____

8. Area of a parallelogram _____

9. Area of a trapezoid _____

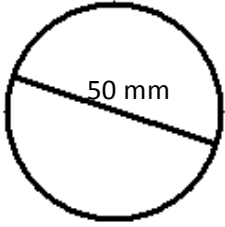
10. Area of a circle _____

11. Area of rectangle _____

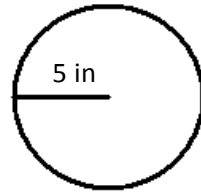
12. Circumference of a circle _____

Round each problem to the tenths.

13. Find the area of the circle.



14. Find the circumference of the circle.



15. The distance across a circular reflecting pool is 12 m. Find the distance around the pool.

16. Find the diameter of a circle with a circumference of 62.8 yards.

17. Two students find the circumference of a circle with a diameter of 16 feet. One student says the circumference is 201.1 feet. The other says it is 25.1 feet. Is either one correct? Explain.

18. The average crop circle is between 100 and 300 feet in diameter. Find the area of a crop circle that is 300 feet in diameter.

19. A baker makes a giant cookie for special occasions that is 16 inches in diameter. How many 4 inch diameter cookies would it take to equal the area of one giant cookie?

20. Describe the difference between the circumference and area of a circle.

21. A round pizza has a circumference of 56.5 in^2 . Explain how to estimate the length and width of the square box needed to package the pizza.

22. Hannah can travel 165 miles in 3 hours. At this rate how far can she travel in 7 hours?

23. Alexandra can read 30 pages in 15 minutes. At this rate, how many pages can she read in 24 minutes?

24. George can run 4 miles in 28 minutes. At this rate, how long will it take him to run 6 miles?

25. A driver fills his tank at Conoco with 15 gallons of gas for \$45.60 at a gas station. The next time he stops he fills up at Shell with 12 gallons for \$39.00. Find the unit price for gas at each station and which station had the better deal?

26. The Earth rotates 1.25 degrees in 5 minutes. How many degrees does it rotate in 1 minute?

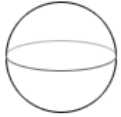
27. Find the constant rate of change for the money you earn mowing lawns.


Hours	2	4	6	8
Dollars	14	26	38	50


28. The table shows the number of concert tickets sold based on the number of hours the tickets are available. Is there a constant rate of change and if so what is the C.R.O.C.?

Time (hr)	Tickets
3	240
5	400
9	720
15	1200

29. Several different prisms are shown. Determine the shape that is formed by each cross section.

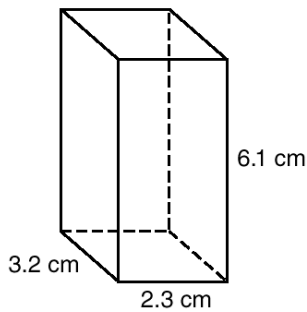
a.  A diagonal slice would give us a _____.

b.  A horizontal slice, parallel to the base, would give us a _____.

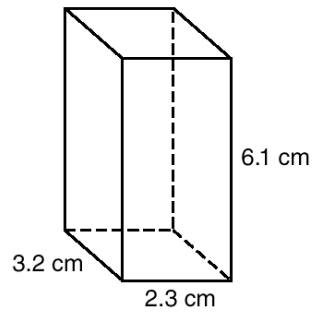
c.  A vertical slice, perpendicular, to the base would give us a _____.

Round each problem to the tenths.

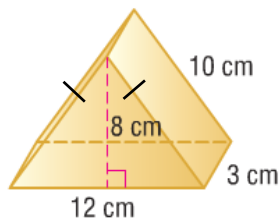
30. Find the surface area of the following shape.



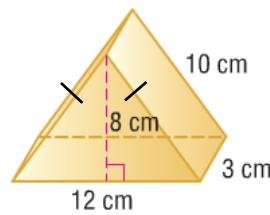
31. Find the volume of the following shape.



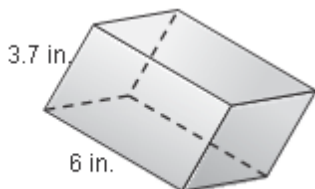
32. Find the surface area of the following shape.



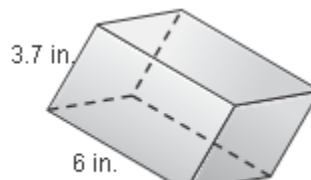
33. Find the volume of the following shape.



34. The volume of this rectangular prism is 86.58 in^3 . What is the width?



35. Now that you know the width of the rectangular (from problem #34) find the surface area.

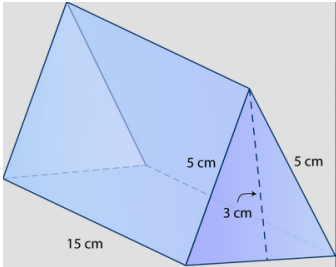


36. The area of the base is 9 cm^2 .

Use this information to find the length of the base of the triangle.

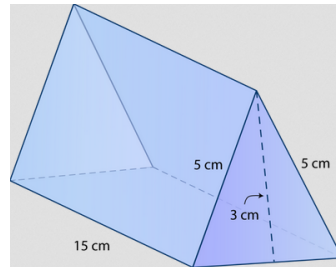
The base of the triangle is _____.

Use this information to find the volume.

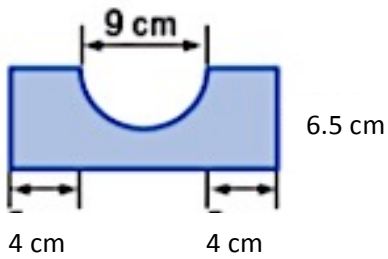


37. Now that you know the base of the

triangle, as found in problem #27, find the surface area.



38. Find the area of the shaded region.



39. Find the area of the shaded region.

