

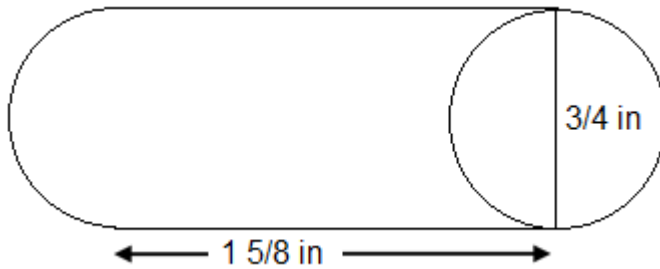
Workforce Math Assessment Test

1. $4.2^{3.6} =$

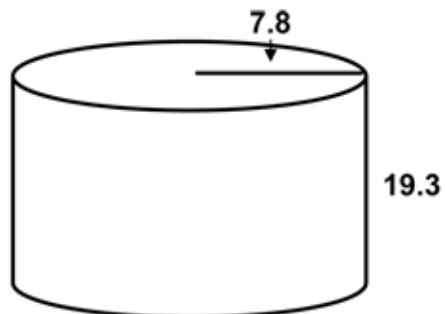
2. $(\frac{3}{4})X - \frac{2}{7} = (\frac{4}{5})X + \frac{3}{8}$, $X = ?$

3. $\sqrt{137} = ?$

4. What is the volume of this cylinder?

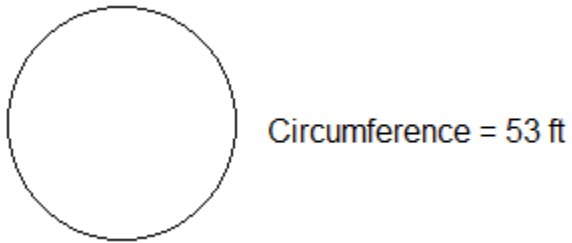


5. What is the total surface area of this cylinder?



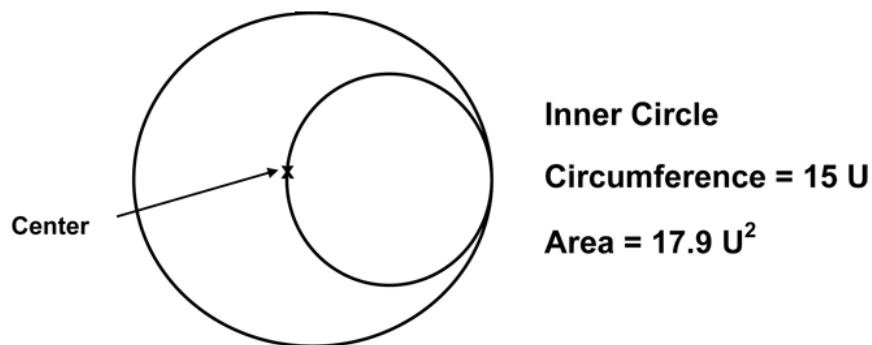
6. $(3/4)/X = 9/16$, $X = ?$

7. What is the radius of this circle?

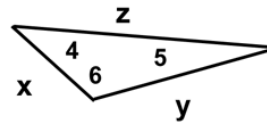
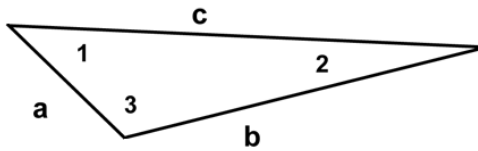


8. $1/(3^2 + 4^2) = ?$

9. What is the area of the larger circle?



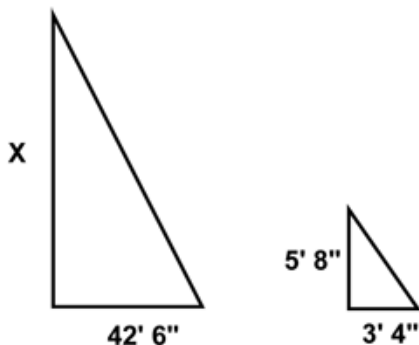
10. Given: $\angle 1 = \angle 4$ and $\angle 2 = \angle 5$
 $b = 2 \frac{3}{8}$, $x = \frac{3}{4}$, $y = \frac{4}{5}$
 $a = ?$



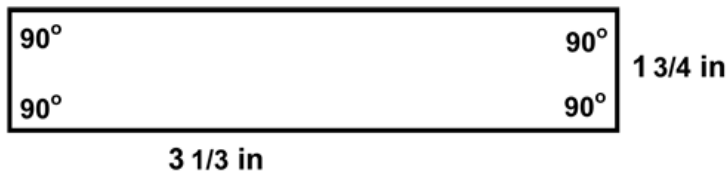
11. Convert the decimal degree (DD) number 87.625 to degrees-minutes-seconds (DMS).

12. Given the conversion factor $1 \text{ in}^2 = 6.452 \text{ cm}^2$, how many cm^2 are on an $8 \frac{1}{2} \text{ in} \times 11 \text{ in}$ sheet of paper?

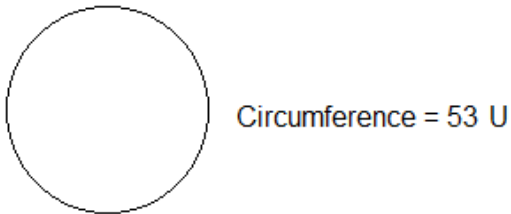
13. How tall is the pole (in feet and inches)? The horizontal lines are shadows.
 Hint: $1'' = \frac{1}{12}'$, so $5' 8'' = (5 \frac{8}{12})'$



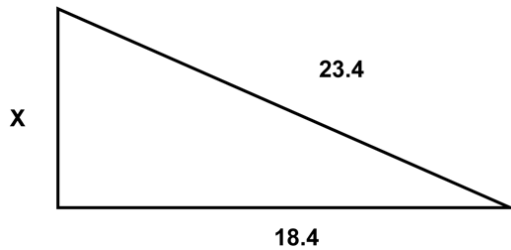
14. Find the area of the rectangle.



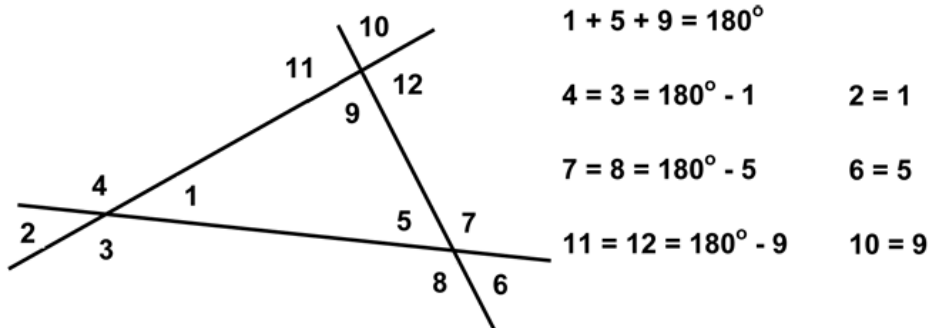
15. What is the area of this circle?



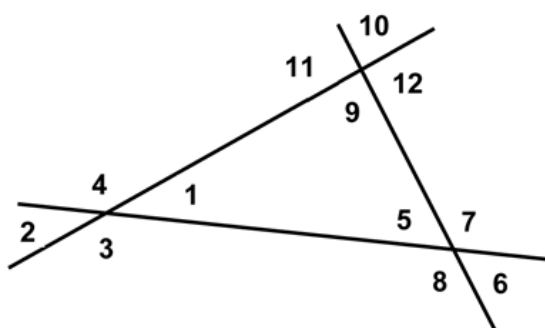
16. In this right triangle, what is X?



17. If $\angle 1 = 40^\circ$ and $\angle 7 = 120^\circ$, what is $\angle 9$'s measure in degrees?



18. If $\angle 2 = 38^\circ$ and $\angle 10 = 70^\circ$, what is $\angle 5$'s measure in degrees?



$$1 + 5 + 9 = 180^\circ$$

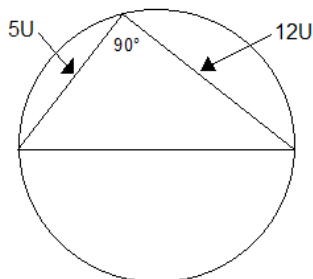
$$4 = 3 = 180^\circ - 1 \quad 2 = 1$$

$$7 = 8 = 180^\circ - 5 \quad 6 = 5$$

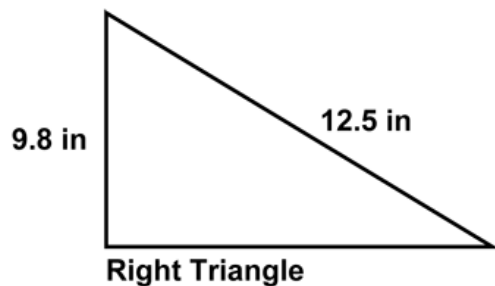
$$11 = 12 = 180^\circ - 9 \quad 10 = 9$$

19. 1 quart of seawater (salt water) weighs 2.138 lb. What is the density of seawater (lb/gal)?

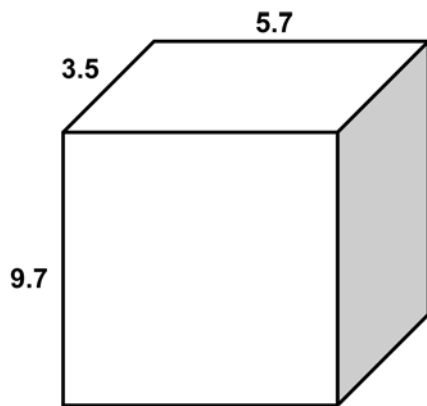
20. What is the radius of this circle?



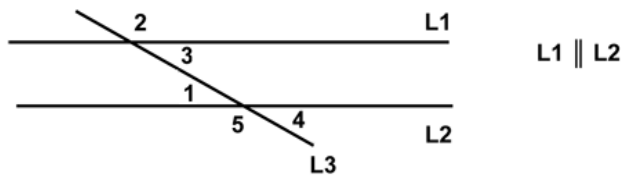
21. Find the area of the right triangle.



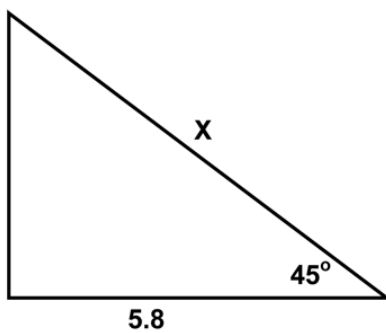
22. What is the volume of the block?



23. Given $\angle 3 = 54^\circ$, what is $\angle 5$ in degrees?



24. In this right triangle, what is the value of X?



25. Convert $\frac{3}{7}$ to decimal.