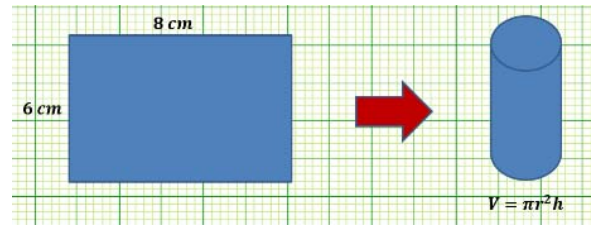


### Problem Solving #5

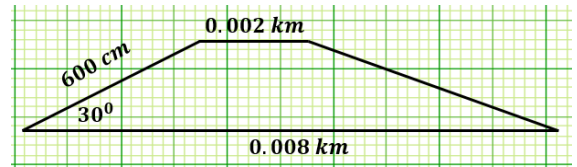
1. Use the rectangle to form a right circular cylinder. What is the volume of the cylinder?



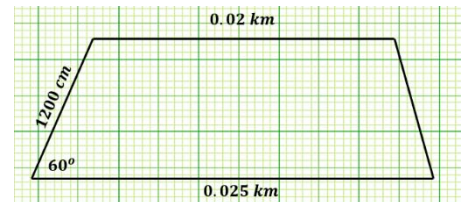
2. Evaluate  $\left((0.4) \left(\frac{5}{8}\right) 6!\right) \div 10$ .

3. Solve for x without using a calculator.  $\log_x(\text{million}) = 6$

4. Find the area of the trapezoid in square meters.



5. Find the area of the trapezoid in square meters.



6. Solve.  $81^{(x/2-4)} = \frac{1}{9^{-1}}$

7. Determine the product.  $(5x - 5) \left(\frac{\frac{x+1}{x}}{x - \frac{1}{x}}\right)$

8. Determine the value of x.  $\frac{37 \text{ r}18}{x \overline{)721}}$

## Video Key

1. [http://youtu.be/KS1pGO\\_g3vM](http://youtu.be/KS1pGO_g3vM)
2. <http://youtu.be/h7NGrIhVmOA>
3. <http://youtu.be/IHzzcXWTkzc>
4. <https://www.youtube.com/watch?v=alZiypjm6is>
5. <https://www.youtube.com/watch?v=BPIWtOM0F14>
6. <http://youtu.be/pd2BoEgIOhA>
7. <http://youtu.be/DdYwVhMrdFo>
8. <https://www.youtube.com/watch?v=QCr9Fea37g4>

Created by James Sousa  
Website: [mathispower4u.com](http://mathispower4u.com)

