Math 9 *Name:*_____

Midterm Review I *Date:* _____

No Calculators for questions 1 to 5.

1. Determine the values of the following: a. $\sqrt{0.04}$ b. $\sqrt{0.0081}$ c. $\sqrt{0.0009}$ d. $\sqrt{\frac{225}{49}}$ e. $\sqrt{\frac{400}{324}}$

2. Determine the perfect square with square root: a. $\frac{5}{7}$ b. 1.6 c. $\frac{10}{9}$ d. 0.92

3. Which of the following are perfect squares? Why? a. $\frac{28}{63}$ b. $\frac{16}{26}$

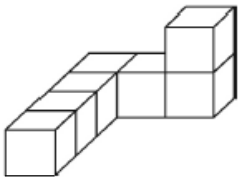
4. Determine the 2 closest perfect squares to: a. 56.9 b. 0.3 c. $\frac{135}{10}$

5. Use benchmarks and **a number line** to estimate the values of the following to the nearest tenth:

a. $\sqrt{0.4}$ b. $\sqrt{0.23}$ c. $\sqrt{0.29}$ d. $\sqrt{0.56}$

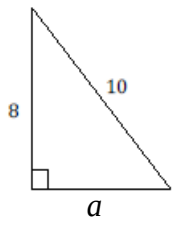
6. Estimate the side length of a square with an area of $13.8\ cm^2$.

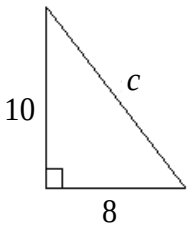
7. Show how to determine the SA of the composite solid using:

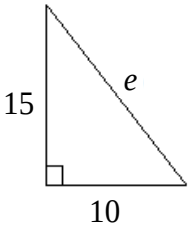


a. the *6 views* method b. *overlap* method

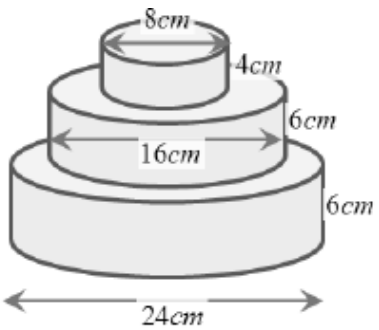
8. Determine the lengths of the unknown sides.







9. Determine the SA of the icing required for the 3-layerd cake shown below.



10. Determine the SA of the composite solid.