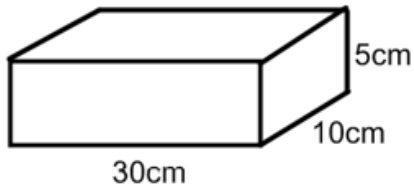


Novice: # 1, 2, 3, and 4

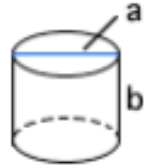
Apprentice: #2, 3, 4, and 5

Expert: #3, 4, 5, and 6

1.



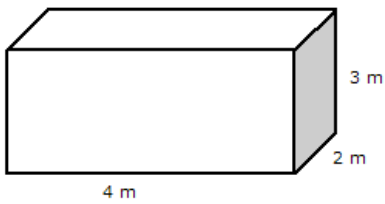
4. $A_{\text{cylinder}} = (2\pi r^2) + (\pi dh)$



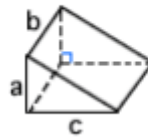
$a = 8\text{km}$

$b = 30\text{km}$

2.



5.

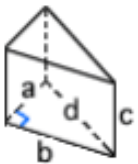


$a = 7.9\text{m}$

$b = 7\text{m}$

$c = 15\text{m}$

3.



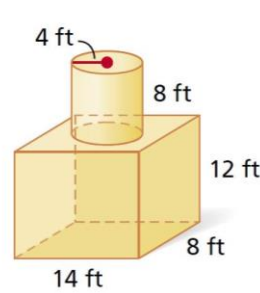
$a = 4\text{cm}$

$b = 9\text{cm}$

$c = 12\text{cm}$

$d = 17\text{cm}$

6.



Answer Key:
1. 1000cm^2
2. 52m^2
3. 396cm^2
4. 854.08 km^2
5. 397.45m^2
6. 952.96 ft^2