

## The High Divers #1

*Answer questions 1 & 2 via Energy Considerations & your "Protractor Elevation Device"*

1. What is the height of the highest platform relative to the water's surface?
  
  
  
  
  
  
  
  
  
  
2. With what velocity does the diver hit the water's surface?

*Answer questions 3 & 4 via classical free fall calculations.*

3. How long does it take the diver to fall to the water's surface?
  
  
  
  
  
  
  
  
  
  
4. What is the height of then platform relative to the water's surface?
  
  
  
  
  
  
  
  
  
  
5. With what velocity does the diver hit the water's surface?

*Comparing the two processes...*

6. What is the R%E between your answers to #'s 1 & 4?
  
  
  
  
  
  
  
  
  
  
7. What is the R%E between your answers to #'s 2 & 5?