

How bravery & sacrifice combined with the sci. method, projectile motion & geometry to help win WW2...

1. For what specific reasons were German dams a valuable bombing target for the Allies in WW2?
2. Why is a bomb detonated at the base of a dam on the water side so much more effective in damaging it?
3. What was the perfect angle the bomb had to strike the water for the above to happen (*listen carefully to the experimentation with the marble*)?
4. *Explain* how "dimples" and "backspin" played a part in the designed bomb delivery.
5. *Describe in detail* the unusual way the bomb would be delivered underwater to the base of the dam by "Operation Chastise." Which feature in #4 was NOT included in the final bomb?
6. Write here→ _____ the average age of the airmen recruited to complete the mission, despite being "among the most decorated Allied fliers" during the early part of WW2.
7. *Describe the 2 ways the geometry of triangles played a part* in the precise moment the bombs had to be dropped.
8. Listen carefully for the number of crewmen that were lost during the dam-bombing missions. Is this an acceptable number of lost lives to you for what the mission accomplish? Why or why not?