

Animation Worksheet: Valve Stem Clearance

Name: _____ **Date:** _____

1. Checking valve stem clearance involves determining the _____ between the valve stem and the valve guide.
2. This inspection is critical to ensuring proper engine operation and preventing issues like _____ or excessive oil consumption.
3. Before measuring, you should inspect components for signs of failure, such as _____, scoring, or carbon buildup.
4. If needed, a technician should clean both the valve stem and the guide using a _____.
5. To find the internal diameter of the guide, you first insert a _____ into the valve guide and adjust it.
6. After setting the gauge, you must measure its diameter using a precision _____.
7. In the video example, the measured diameter of the valve guide was _____ inches.
8. Next, you must measure the _____ at multiple points along its length using the micrometer.
9. To find the final clearance, you must _____ the valve stem diameter from the valve guide inner diameter.
10. In the example provided, the calculated clearance was _____, which must then be compared to the manufacturer's specifications.