

Animation Worksheet: Rocker Arm Ratio

Name: _____ Date: _____

1. The rocker arm ratio is the comparison between the distance the _____ moves and the distance the _____ moves.
2. The ratio is determined by the specific _____ of the rocker arm.
3. A rocker arm acts as a _____ to increase the motion sent from the camshaft.
4. To find the rocker arm ratio, you must take the valve lift and _____ it by the pushrod travel.
5. If a pushrod moves 0.500 inches and the valve moves 0.750 inches, the rocker arm ratio is _____.
6. Higher rocker arm ratios allow the engine to achieve more _____ without changing the camshaft itself.
7. The pivot point of the rocker arm is often supported by a _____ or a shaft.
8. When the pushrod pushes up on one side of the rocker arm, the other side pushes _____ on the valve stem.
9. Increasing the rocker arm ratio can improve engine performance by allowing more _____ and fuel into the cylinder.
10. Technicians must ensure that high-ratio rocker arms do not cause the valve springs to _____ (reach their physical limit).