

Animation Worksheet: Power Flow 41TE

Name: _____ Date: _____

1. The 41TE transmission uses a torque converter, multiple disc clutches, and two _____ gear sets (front and rear) in a compact layout to achieve its gears.
2. While engine RPM measures the speed of the engine's crankshaft, _____ RPM measures the rotational speed of the transmission's output shaft.
3. The overall speed relationship is determined by the transmission's gear ratio, the torque converter, and the _____ drive ratio, which is the gear reduction between the transmission output and the differential.
4. To shift the transmission into First (Low) gear, the Underdrive clutch and the _____ clutch must both be engaged.
5. In First gear, the gear ratio of 2.84 to 1 means that if the input shaft is spinning at 2,840 RPM, the driveshaft will rotate at approximately _____ RPM.
6. When shifting into Second gear, the Underdrive clutch remains applied while the _____ clutch is engaged to hold the front sun gear stationary.
7. Shifting from first to second gear reduces the gear ratio from 2.84:1 down to 1.6:1, which _____ the driveshaft RPM relative to the engine RPM to help maintain or increase vehicle speed.
8. Because the planetary gears lock up and rotate as a single unit in Third gear, the transmission achieves a direct drive ratio of _____ to 1.
9. In Fourth gear, which acts as an overdrive gear with a ratio of 0.7 to 1, the output driveshaft actually rotates _____ than the input shaft.
10. To back up the vehicle in Reverse, the transmission applies the Reverse clutch and the Low Reverse clutch, which forces the output shaft to rotate in a _____ direction.