

Animation Worksheet: Power Flow 4 41te

Name: _____ **Date:** _____

1. Power enters the transmission through the _____ converter, which transfers engine power directly to the input shaft.
2. While input clutches send power to the planetary gears, _____ clutches react against the outer transmission case to hold parts still.
3. To shift the transmission into First (Low) gear, the Underdrive clutch and the _____ clutch must both be applied.
4. In First gear, the stationary front carrier and rear ring gear act as reaction members, creating a reduction gear ratio of _____ to 1.
5. When shifting into Second gear, the Underdrive clutch remains applied while the _____ clutch is engaged to hold the front sun gear stationary.
6. The gear ratio for Second gear is _____ to 1, which represents a step up in speed from first gear.
7. During a shift into Third gear, both the Underdrive clutch and the Overdrive clutch are applied, which causes the rear planetary gear set to _____ and rotate together as a single unit.
8. Because the planetary gears lock up in Third gear, the transmission achieves a direct drive ratio of _____ to 1.
9. In Fourth gear, which acts as an overdrive gear, the transmission uses the 2-4 clutch and the Overdrive clutch to deliver an output ratio of _____ to 1.
10. To shift the vehicle into Reverse, the transmission applies the Reverse clutch and the Low Reverse clutch, creating a gear ratio of _____ to 1 in the opposite direction.