

## 1 Test Drive Train Tasks

### Yes/No

*Indicate whether you agree with the statement.*

- \_\_\_ 1. Determine gear ratios using transmission data plate, differential data plate, engine speed and tire sizes. Compute the top speed of 3 trucks.
- \_\_\_ 2. Visually inspect drive train components and manually check oil levels in transmission and differential.
- \_\_\_ 3. Inspect and R&R 2 complete driveshafts (both ends and center bearing). Pay particular attention to the u-joints and yoke phasing.
- \_\_\_ 4. Inspect transmission/differential/PTO for leaks, loose fasteners etc.  
Inspect transmission shift controls, lines vents, valves, regulators, control assembly.
- \_\_\_ 5. Remove, inspect and reinstall input shaft, gear, spacers, bearing, retainers.
- \_\_\_ 6. Inspect transmission oil cooler, lines and brackets.
- \_\_\_ 7. Remove and replace two plate clutch. Adjust clutch to proper specification using information available on-line.  
Inspect throw out bearing, pilot bearing, flywheel, bell and flywheel housing, release fork, cross shaft and cross shaft bushings.  
Torque clutch cover/pressure plate to proper specification.
- \_\_\_ 8. Inspect flywheel housing. Measure housing face and bore runout. Measure flywheel face and pilot bearing bore runout.  
Inspect flywheel mounting area on crankshaft, rear main oil seal and crankshaft end play.  
Torque flywheel bolts to proper specification.
- \_\_\_ 9. Remove, clean, inspect, lubricate, replace and adjust wheel bearings and seals.
- \_\_\_ 10. Remove and replace differential.
- \_\_\_ 11. I have completed ALL sections of the Caterpillar Basics Library *Drive Trains* self paced training by November 6, 2007.