Axial Fit - Tolerance Analysis

Allowance: the minimum allowable difference between mating parts
Clearance: the maximum allowable difference between mating parts

Allowance = Smallest Hole – Largest Shaft
Clearance = Largest Hole – Smallest Shaft

Allowance:
Smallest Hole = _____
Largest Shaft = 1.5 + _____ + 1.5 = 83.83

Clearance:
Largest Hole = _____
Smallest Shaft = _____ + 80.50 + _____ = _____

1. What is the axial ‘allowance’ between the wheel subassembly and the shaft ___________
2. What is the axial ‘clearance’ between the wheel subassembly and the shaft ___________