Huron automotive company



Case 1. Huron Automotive Company Question 1. Current Method vs. First Proposal vs. Revised Proposal | Current Method | 55. 96 |\$/hour | | | | Department: | | CS-29 Injectors (per batch | Spare Parts for Inventory | Work for Other Divisions (per| | | | of 100) | (per typical month) | typical month) | | Casting/stamping | | 1, 175. 6 | 17, 011. 84 | 37, 717. 04 | | Grinding | | | 671. 52 | 15, 109. 20 | 30, 218. 40 | | Machining | | 3, 245. 68 | 62, 395. 40 | 120, 761. 8 | Custom work | | | | | | | | - | - | Assembly | | 1, 958. 60 | | | | | | |- |- | | Total | | | \$ 7, 050. 6 | \$ 94, 516. 44 | \$ 188, 697. 12 | | Sandy Bond's 1st Proposal | | | | Department: | | CS-29 Injectors (per batch | Spare Parts for Inventory | Work for Other Divisions (per| | | | of 100) | (per typical month) | typical month) | | Casting/stamping | | 1, 112. 7 | 16, 102. 88 | 35, 701. 78 | | Grinding | | | 577. 68 | 12, 997. 80 | 25, 995. 60 | | Machining | | 5, 076. 16 | 97, 584. 80 | 188, 868. 16 | | Custom work | - | | | | | | |- |- | | Assembly | | 1, 406. 65 | | | | | | | | - | - | | Total | | | \$ 8, 172. 86 | \$ 126, 685. 8 | \$ 250, 565. 54 | | Sandy Bond's Revised Proposal | | | | Department: | | CS-29 Injectors | Spare Parts for Inventory | Work for Other Divisions (per| | | |(per batch of 100) |(per typical month) | typical month) | | Casting/stamping | | 1, 115. 52 | 16, 148. 48 | 35, 802. 8 | | Grinding | | | 561. 00 | 12, 622. 50 | 25, 245. 00 | | Machining | | 5, 017. 00 | 96, 447. 50 | 186, 667. 00 | Custom work | | - | | | | | | | - | | Assembly | | 1, 369. 0 | | | | | | |- |- | | Total | | | \$ 8, 063. 42 | \$ 125, 218. 48 | \$ 247, 714. 88 | Question 3a. Depreciation of equipment for Custom Work Department: \$400, 000 / 5 years / 12 months = \$6, 666. 67 Exhibit 1 | Calculation of Plantwide Labor and Overhead Hourly Rate Month of July | | | | | Dollars | | Hours | | | Labor: | | | | | | | | Casting/stamping | | | | | | | 54, 604. 0 | | 2, 528 | | | | Grinding | | | | | | | | 38, 520. 00 | 2, 140 | | | Machining | | | | | | | | | |

191, 876. 0 7, 675 Custom work reduced by 30% 57, 165.
00 2, 598 Assembly 291, 784. 0 15, 357 Total
Labor 633, 949. 0 30, 298 Overhead:
Depreciation / labor 1, 101, 482. 0 Total Labor
and overhead \$ 1, 735, 431. 00 Hourly
rate 57. 8 per hour 20. 92 labor Total Labor and O'head / Total
Manhours 36. 35 overhead Prior to new machine: 3, 712 hours @ \$55.
96 =\$207, 723. 52 After new machine: 2, 598 hours @ \$57. 28 =\$ 148, 813.
44 Cost difference\$ 58, 910. 08 Question 3b. Current overhead cost is \$40.
48 * 3, 712 hours = \$150, 262. 00 Add: Add'l Overhead\$6, 666. 67 - 4, 507.
67 = 2, 159. 00 New Overhead Cost \$152, 421. 00 New Total Hours upon
purchase 3, 712*70%2, 598. 40
New Hourly Overhead Rate 58. 66 Labor Hourly Rate22. 00 New Custom
work hourly Rate80. 66 Prior to acquisition: 3, 712 hours @ 62. 48 =\$231,
926 After acquisition: 2, 598 hous @ 80. 66 =\$209, 555 Difference\$ 22, 371
Question 4. Department CS-29 injectors (cost per Department CS-29
injectors (cost per 100 batch) 100 batch) Casting/stamping 1175
Casting/stamping 1112 Grinding 672 Grinding 578 Machining
3246 Machining 5076 Custom work Custom work -
Assembly 1959 Assembly 1407 Total 7051 Total 8173
Inventory Cost = Inventory Cost =
Question 5. Direct Material Cost 8000 Department CS-30 injectors (Labor
per CS-30 Injectors (Cost 100 units) per 100 units) Casting/stamping
12 635. 64 Grinding 7 336. 98 Machining 17 1,
487. 4 Custom work - - Assembly 35 1, 406. 65 Total

| | | | 3, 867. 11 | | | | | Inventory Cost = | 8000 + 3867. 11 | | | | 118. 67 | | 100 | | CS-30 is profitable over CS-29