**Question NUmber 1**

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| Missouri Corporation shows the following information concerning the work in process at its plant: |

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| • | Beginning inventory was partially complete (materials are 100 percent complete; conversion costs are 59 percent complete). |
| • | Started this month, 60,100 units. |
| • | Transferred out, 50,000 units. |
| • | Ending inventory, 19,400 units (materials are 100 percent complete; conversion costs are 15 percent complete). |

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| **Required:** |

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| **(a)** | Compute the equivalent units for materials using the weighted-average method. |

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| Equivalent Unites: |

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| **(b)** | Compute the equivalent units for conversion costs using the weighted-average method. |

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Equivalent Unites:

**Question number 2:**

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| Missouri Corporation shows the following information concerning the work in process at its plant: |

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| • | Beginning inventory was partially complete (materials are 100 percent complete; conversion costs are 61 percent complete). |
| • | Started this month, 60,000 units. |
| • | Transferred out, 50,300 units. |
| • | Ending inventory, 19,600 units (materials are 100 percent complete; conversion costs are 17 percent complete). |

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| **Required:** |

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| **(a)** | Compute the equivalent units for materials using FIFO. |

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| Equivalent Unites: |

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| **(b)** | Compute the equivalent units for conversion costs using FIFO. |

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Equivalent Unites:

**Question Number 3**

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| Assume that El Paso Corporation provides you with the following information for one of its department’s operations for September (no new material is added in Department B): |

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| WIP inventory—Department B |  |  |
| Beginning inventory (8,200 units, 20% complete with   respect to Department B costs) |  |  |
| Transferred-in costs (from Department A) | $ | 35,830 |
| Department B conversion costs |  | 8,930 |
| Current work (18,900 units started) |  |  |
| Prior department costs |  | 88,830 |
| Department B costs |  | 167,020 |
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| The ending inventory has 3,200 units, which are 50 percent complete with respect to Department B costs and 100 percent complete for prior department costs. |

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| **Required:** |

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| Use a production cost report using FIFO. **(Round your amounts to the nearest whole unit/dollar except for "cost per equivalent unit" which should be rounded to two decimal places.)** |

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|  | |  |  |  |  | | --- | --- | --- | --- | |  | **Physical Units** | **Equivalent Units** | | |  |  | **Prior Department** | **Department B** | | Flow of units: |  |  |  | | Units to be accounted for: |  |  |  | | Beginning WIP inventory |  |  |  | | Units started this period |  |  |  | | Total units to account for | 0 |  |  | | Units accounted for: |  |  |  | | Completed and transferred out |  |  |  | | From beginning WIP inventory |  |  |  | | Prior department |  |  |  | | Department B |  |  |  | | Started and completed currently |  |  |  | | Units in ending WIP inventory |  |  |  | | Prior department |  |  |  | | Department B |  |  |  | | Total units accounted for |  |  |  | | |

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|  | |  |  |  |  | | --- | --- | --- | --- | |  | **Total** | **Prior department** | **Department B** | | Flow of costs: |  |  |  | | Costs to be accounted for: |  |  |  | | Costs in beginning WIP inventory |  |  |  | | Current period costs |  |  |  | | Total costs to be accounted for | $0 | $0 | $0 | | Cost per equivalent unit |  |  |  | | Prior department |  |  |  | | Department B |  |  |  | | Costs accounted for: |  |  |  | | Costs assigned to units transferred out: |  |  |  | | Costs from beginning WIP inventory |  |  |  | | Current costs added to complete beginning |  |  |  | | WIP inventory |  |  |  | | Prior department |  |  |  | | Department B |  |  |  | | Current costs of units started and completed: |  |  |  | | Prior department |  |  |  | | Department B |  |  |  | | Total costs transferred out | $0 | $0 | $0 | | Cost of ending WIP inventory |  |  |  | | Prior department |  |  |  | | Department B |  |  |  | | Total costs accounted for | $0 | $0 | $0 | |

**Question Number 4**

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| Douglas Toys is a manufacturer that uses FIFO costing method to account for costs of production. It produces a plastic toy in three separate departments: Molding, Assembling, and Finishing. The following information was obtained for the Assembling Department for the month of September. |
| Work in process on September 1 had 107,000 units made up of the following: |

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|  |  | Amount |  | Degree of Completion |  |  |
| Prior department costs transferred in from the Molding Department | $ | 145,520 |  | 100 | % |  |
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| Costs added by the Assembling Department |  |  |  |  |  |  |
| Direct materials | $ | 96,300 |  | 100 | % |  |
| Direct labor |  | 36,169 |  | 70 | % |  |
| Manufacturing overhead |  | 19,012 |  | 50 | % |  |
|  |  |  |  |  |  |  |
|  | $ | 151,481 |  |  |  |  |
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| Work in process, September 1 | $ | 297,001 |  |  |  |  |
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| During September, 507,000 units were transferred in from the Molding Department at a cost of $689,520. The Assembling Department added the following costs: |

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| Direct materials | $ | 437,670 |
| Direct labor |  | 164,241 |
| Manufacturing overhead |  | 74,808 |
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| Total costs added | $ | 676,719 |
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| Assembling finished 407,000 units and transferred them to the Finishing Department. |
| At September 30, 207,000 units were still in work-in-process inventory. The degree of completion of work-in-process inventory at September 30 was as follows: |

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| Direct materials | 90 | % |  |
| Direct labor | 80 |  |  |
| Manufacturing overhead | 30 |  |  |
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| **Required:** | |
| **(a)** | Prepare a production cost report using FIFO. **(Round your answer to 2 decimal places.)** |

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|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **DOUGLAS TOYS** | | | | | | | **Assembling Department** | | | | | | | **Production Cost Report—FIFO** | | | | | | | **Flow of Production Units** | **COMPUTE EQUIVALENT UNITS** | | | | | |  | **Physical Units** | **Prior Department Costs** | **Materials** | **Labor** | **Manufacturing Overhead** | | Units to be accounted for: |  |  |  |  |  | | Beginning WIP inventory |  |  |  |  |  | | Units started this period |  |  |  |  |  | | Total units to be accounted for | 0 |  |  |  |  | | Units accounted for: |  |  |  |  |  | | Units completed and transferred out: |  |  |  |  |  | | From beginning inventory |  |  |  |  |  | | Started and completed currently |  |  |  |  |  | | Units in ending WIP inventory |  |  |  |  |  | | Total units accounted for | 0 | 0 | 0 | 0 | 0 | |
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|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Costs** |  | **DETAILS** | | | | |  | **Total Costs** | **Prior Department Costs** | **Materials** | **Labor** | **Manufacturing Overhead** | | Costs to be accounted for: |  |  |  |  |  | | Costs in beginning WIP inventory |  |  |  |  |  | | Current period costs |  |  |  |  |  | | Total costs to be accounted | $0 | $0 | $0 | $0 | $0 | |  |  |  |  |  |  | | Cost per equivalent unit: |  |  |  |  |  | | Prior department costs |  |  |  |  |  | | Materials |  |  |  |  |  | | Labor |  |  |  |  |  | | Manufacturing overhead |  |  |  |  |  | |

      

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|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **DETAILS** | | | | | |  | **Total Costs** | **Prior Department Costs** | **Materials** | **Labor** | **Manufacturing Overhead** | | Costs accounted for: |  |  |  |  |  | | Costs assigned to units transferred out: |  |  |  |  |  | | Costs from beginning WIP inventory |  |  |  |  |  | | Current costs added to complete beginning WIP inventory: |  |  |  |  |  | | Prior department costs |  |  |  |  |  | | Materials |  |  |  |  |  | | Labor |  |  |  |  |  | | Manufacturing overhead |  |  |  |  |  | | Total costs from beginning inventory | $0 |  |  |  |  | | Current costs of units started and completed: |  |  |  |  |  | | Prior department costs |  |  |  |  |  | | Materials |  |  |  |  |  | | Labor |  |  |  |  |  | | Manufacturing overhead |  |  |  |  |  | | Total costs of units started and completed | $0 |  |  |  |  | | Total costs of units transferred out | $0 |  |  |  |  | | Costs assigned to ending WIP inventory: |  |  |  |  |  | | Prior department costs |  |  |  |  |  | | Materials |  |  |  |  |  | | Labor |  |  |  |  |  | | Manufacturing overhead |  |  |  |  |  | | Total ending WIP inventory | $0 |  |  |  |  | | Total costs accounted for | $0 | $0 | $0 | $0 | $0 | |

**Question Number 5**

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| Washington, Inc., makes three models of motorized carts for vacation resorts, X-10, X-20, and X-40. Washington manufactures the carts in two assembly departments: Department A and Department B. All three models are processed initially in Department A, where all material is assembled. The X-10 model is then transferred to finished goods. After processing in Department A, the X-20 and X-40 models are transferred to Department B for final assembly, and then transferred to finished goods. |

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| There were no beginning work-in-process inventories on April 1. Data for April are shown in the following table. Ending work in process is 20 percent complete in Department A and 60 percent complete in Department B. Conversion costs are allocated based on the number of equivalent units processed in each department. |

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|  | Total | | | X-10 | | | X-20 | | | X-40 | | |
| Units started |  |  |  |  | 470 |  |  | 330 |  |  | 300 |  |
| Units completed in Department A |  |  |  |  | 440 |  |  | 250 |  |  | 180 |  |
| Units completed in Department B |  |  |  |  |  |  |  | 230 |  |  | 165 |  |
| Materials | $ | 390,750 |  | $ | 35,250 |  | $ | 115,500 |  | $ | 240,000 |  |
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| Conversion costs: |  |  |  |  |  |  |  |  |  |  |  |  |
| Department A | $ | 274,800 |  |  |  |  |  |  |  |  |  |  |
| Department B |  | 41,600 |  |  |  |  |  |  |  |  |  |  |
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| Total conversion costs | $ | 316,400 |  |  |  |  |  |  |  |  |  |  |
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| **Required:** |

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| **(a)** | What is the unit cost of each model transferred to finished goods in April? **(Do not round intermediate calculations. Round final answers to the nearest dollar amounts and units.)** |

     

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| **(b)** | What is the balance of work-in-process inventory on April 30 for Department A? Department B? **(Do not round intermediate calculations. Round final answers to the nearest dollar amounts and units.)** |

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|  | |  |  |  | | --- | --- | --- | |  | **Department A** | **Department B** | | Balance of work-in-process ending inventory |  |  | |