ACCT 7

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| The number of X-rays taken and X-ray costs over the last nine months in Beverly Hospital are given below: |

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|     Month | X-Rays Taken | X-Ray Costs |
|     January | 6,600        | $21,120      |
|     February | 13,800        | $35,460      |
|     March | 13,100        | $34,576      |
|     April | 11,100        | $29,808      |
|     May | 8,500        | $27,200      |
|     June | 10,500        | $26,256      |
|     July | 5,100        | $16,320      |
|     August | 10,800        | $26,726      |
|     September | 5,800        | $18,560      |
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| **Required:** |
| **1.** | Using the high-low method, estimate the cost formula for X-ray costs. **(Round the "Variable cost  per X-ray" to 2 decimal places and the "Fixed cost" to the nearest dollar amount. Omit the "$" sign in your response.)** |

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| --- | --- | --- | --- | --- |
|   Y  = | $  |  + | $  |  X |

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| **2.** | Using the cost formula you derived above, what X-ray costs would you expect to be incurred during a month in which 4,650 X-rays are taken? **(Omit the "$" sign in your response.)** |

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|   |   |
|   Variable cost | $   |
|   Fixed cost |   |
|   |  |
|   Total cost | $   |