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| **Activity 4.1g Model Creation** |



Procedure

Follow the instructions to create 3D solid models of each of the following objects using the specified method(s) and respond to the prompts.

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| 1. |  |
|  | **All dimensions are in inches.** |
|  |  |
|  | Create a 3D solid model of the object above using the most efficient method. |
|  | Which method (additive, subtractive, or a combination of additive and subtractive) did you use? Why do you feel it was most efficient? |

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| 2. |  |
|  | **All dimensions in mm.** |
|  |  |
|  | Create a 3D solid model of the object above using the most efficient method possible. The hole extends through the part. |
|  | Describe the method you used to model the object? Why do you feel it was most efficient? |

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| 3. |  |
|  | **All dimensions are in inches.** |
|  |  |
|  | Create a 3D solid model of the object above using only additive procedures. |
|  | Create a 3D solid model of the object above using only subtractive procedures. |
|  | Which method (additive, subtractive, or a combination of additive and subtractive) do you feel would be the most efficient method for creating the object? Why? |

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| 4. |  |
|  | **All dimensions are in inches.** |
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|  | Create a 3D solid model of the object above in the most efficient manner possible. |
|  | Describe the method you used to create the object. |
|  | Can you think of a method to create the 3D solid model that would be more efficient? Explain |