Class Worksheet

*Watch the following videos about Classes & Objects. In the areas below, respond to Questions 1-6*

Video 1 [[link](https://www.youtube.com/watch?v=0NPR8GFHNmE)] Video 2 [[link](https://youtu.be/cwtBfVFuiBo)]

1. Identify three features of using classes in Java that you learned from this video. What are they? How are they useful in programming?

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| * Fields   + Helps to organize variables and make projects more compact (Fewer global variables) * Methods   + Organizes code blocks for specific actions * Constructors   + Creates objects which are instances of classes |

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2. In video 1, what would execute if you were to run *tom.walk()* in the main method?

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| walking... |

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3. In video 1, what would execute if you were to print *tom.heightInInches* in the main method?

System.out.println(tom.heightInInches);

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| 72 |

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4. How do the constructors differ from video 1 to video 2?

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| In video 1, the constructor didn’t require any arguments to be supplied, and the field were hence altered separately. In video 2, the constructor required arguments to be supplied to alter the field directly. |

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5. When do objects exist in our program?

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| They exist during runtime, only. |

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6. In video 2, explain why the constructors of *Bird.java* and *Fish.java* exist or don’t exist

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| Yes, the constructors exist by default, even if not explicitly defined. |