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| Instructions |  |
| CS Arch Assignment 1  Work the following problems individually.  Do not use a computer.  You can use a calculator.  You can use your “hardback” book as a reference. You should work independently.  You have until 12pm September 9th to complete this assignment.  Go to the Quizzes section of D2L in entering your assignment answers into the grader prior to the deadline.  **Carefully follow the instructions in entering your answers into the grader - keep in mind that your grade always encompasses how well you follow instructions.**  Perform the base conversion using either the subtraction or division methods (1-4)  1.       458 in base 10 is what in base 3?  2.       677 in base 10 is what in base 5 ?  3.       1518 in base 10 is what in base 7 ?  4.       Convert the binary fraction, 10111.1101, to decimal.  For #5 and #6, represent the following decimal numbers in binary using 8-bit signed-magnitude, 8-bit one’s complement and 8-bit two’s complement.  5.       77  6.       -42    7.       Add the following unsigned binary numbers:     01110101  + 00111011    8.       Subtract the following signed binary numbers as shown using 2’s complement (recall computers do not subtract)     01110101  - 00111011    9.       Perform binary multiplication using the unsigned binary numbers   1100  X 101    These instructions **DO NOT** request an upload.  Again, do NOT upload, use the grader. | |