

Physics 20

Assignment 4

Significant Figures Worksheet

Part A. How many significant figures are in each value?

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|------|------|------|
| 1) 6 | 4) 3 | 7) 3 |
| 2) 2 | 5) 2 | 8) 3 |
| 3) 4 | 6) 5 | 9) 6 |

Part B. Round each of the following numbers to contain 4 significant figures.

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|-------------|----------|-----------|
| 1) 0.005789 | 4) 0.147 | 7) 3.47 |
| 2) 942100 | 5) 271.9 | 8) 387500 |
| 3) 43.05 | 6) 6 | 9) 0.1769 |

Part C. Perform these operations, keeping the proper amount of significant figures in the answer.

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|----------|----------|
| 1) 8.55 | 6) 1.3 |
| 2) 9.8 | 7) 0.911 |
| 3) 2.42 | 8) 46 |
| 4) 16 | 9) 3.5 |
| 5) 0.007 | 10) 0.28 |

Part D. Perform these operations, using the proper amount of significant figures in the answer.

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|-----------|----------|
| 1) 25 | 6) 11.21 |
| 2) 22.84 | 7) 7.3 |
| 3) 2.22 | 8) 150 |
| 4) 10.122 | 9) 13.31 |
| 5) 33.43 | 10) 8.22 |