

Physics Test # 1. Mostly over Ch 2, with a little bit of Ch 1. Also, a lab question.

This study guide contains information about the first Physics test. The number column refers to the question number on the test. The concept column tells what science or math concept is involved. The example column gives problems in the text that are somewhat like (in some cases extremely similar to) the actual test question.

Number	Concept	Example
1 – 3	Tell how many sig digits in a measurement	p 37. prob 6
4 – 6	Convert within the metric system	p. 37 prob 2
7	Calculate, paying especially close attention to reporting the correct number of significant digits	p. 37 prob 8, 9
8 – 12	Rearranging formulas for various variables.	p. 39 prob 21
13	A problem involving density, mass and volume	p. 39 prob 20
14	A $d=rt$ problem involving the orbit of the planet Mars around the sun.	p. 39 prob 25 – 26
15	Students graph some data and tell whether the relationship is direct or inverse	P. 38, probs 17, 18, 19
16	Another exercise involving graphing some data points, then reasoning from the graph to determine the type of relation On both 15 and 16 the student should be familiar with the idea of independent and dependent variables. Also, students are expected to understand and apply the idea of “curve of best fit”.	P. 38, probs 17, 18, 19
17	A conceptual question about significant digits, the question relates to why scientists would only consider significant digits when discussing a measured value. For example, in the class notes formula $A = \pi r^2$ if one measured the radius of a circle as 0.034m and calculated the area, why would one not be concerned with the number of significant digits in π .	
18.	A multi-step factor labeling question	P. 39, prob 28
19.	A question related to the lab on wires and tiles.	lab
20	???	???

Pt. value will be 100.