ANSLIER KEY

Estimations and Unit analysis 1. D 2. B
3 B 4 B
Vectors 1. A
2. B 3 A
Motion Along a Straight line
7. A
3. C
y.c
5.
4. B b. B
6. D C. B
Motion in two and three-dimensions
2. 3
3. A
Forces 1. D
i. B
3. Water

1) You clap and hear the sound of the echo off the other side of the canyon wall at 15 seconds later. You estimate the canyor wall to be about 0.25 km away. What is the speed of sound (mis). What is the speed of sound (Lm/h) speed = d 0.25 km = m 0.25 1000 m = 250 m 1.5 sec m1s - 25011.5 = Ildo. Welf =Dis the answer 0.25 km 1.5 1 = 416 x10 4 NV milm - 0.25/4.14 ×104 = 600.9 milhr 2) What is 0.25 m3 in cm3 0.25 x 1E6 = 250,000 7B is the answer 3) What is 100 km/hr in mis 100 13.6 - 27,7 - B is the answer (4) A long tube from a construction site has a volvine of 0.00 m3 and a mass of a kg. convert the numbers to a density and determine the substance 0.001 - 1000 cm3 9 - 9000 g density = m/U 1000 9B is the answer 9000 a og cm? copper 5) X, is a vector w/ a magnitude of 12 meters and makes an angle of 300 above x axis. What is the component in form - A 15 the answer 513 7 5/2)

7

1

4



