



King Fahd University of Petroleum & Minerals

جامعة الملك فهد للبترول والمعادن

Surveying - CE 260

Home Work #1

Date: 18/02/2008

Due: 25/02/2008

1. *Write short essay about each of the following:*

Plane Surveying, Geodetic Surveying, Layout Surveys, Control Surveys, Aerial Surveys, As-built Surveys, Latitudes, Meridians, Grid Reference, MSL, EDM, Total Station, Accuracy, Precision, Systematic Errors, Random Errors, Mistakes, Accuracy Ratio, Stationing and Polar Tie.

2. *What are the methods and techniques followed to*
A. Reduce errors B. eliminate mistakes?

3. *Calculate the error and the accuracy ratio for the following:*

True distance	Measured distance
152.25	152.22
3551.74	3551.64

Which of the above measurements is more accurate?