Chapter 1

INTRODUCTION

1.9 (b)(i) The number of students attending a class is a *discrete* variable.

(ii) The amount of milk produced by a cow is a *continuous* variable.

(iii) The number of heads in the toss of 6 coins is a *discrete* variable.

(iv) The yearly income of a College Professor is a *discrete* variable.

(v) The age of a shopkeeper is a *continuous* variable.

(vi) The weight of a college student is a *continuous* variable.

(vii) The number of petals on a flower is a *discrete* variable.

(viii) The life time of television tubes produced by a company is a *continuous* variable.

(ix) Temperature recorded every half hour at a weather bureau is a *continuous* variable.

(x) The number of shares sold each day in the stock market is a *discrete* variable.

1.10 (i) 32.21705 rounded off to four significant digits becomes 32.22.

(ii) 937.05002 rounded off to four significant digits becomes 937.1. We increase zero preceding 5 by 1 as 5 is followed by a non-zero digit.

(iii) 0.003599499 rounded to four significant digits becomes 0.003599 because beginning zeros are not significant but they serve only to locate the decimal point.

(iv) 1.003599499 rounded to four significant digits becomes 1.004.

(v) 0.07000455 rounded to four significant digits becomes 0.07000.

(vi) 22.2500001 rounded to four significant digits becomes 22.25.

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