

TEST 1 – MARK SCHEME

SECTION A

A1

- (a) Diameter of greater than 4 marbles measured (1)
Average diameter correctly calculated **with** unit (1) [2]
- (b) Resolution = ± 1 mm (accept 0.5 mm) (1)
% uncertainty calculated correctly (1)
Allow e.c.f. from (a) [2]
- (c) Volume correct with unit (1)
% uncertainty = $3 \times (b)$ (1) e.c.f. [2]
- (d) Density correct with unit (1) allow e.c.f. from (c)
Absolute uncertainty correct (1) allow e.c.f. from (c) [2]

Total [8]