## Foundation (Grade 5) GCSE Mini Test 5 **1** A athlete runs a distance of 1500 metres in 3 2 A gold coin has a mass of 40 grams and a minutes and 50 seconds. density of 19.3 grams/cm<sup>3</sup>. Work out the average speed of the athlete. Work out the volume of the gold coin. Give your answer to one decimal place. Give your answer, in metres per second, to 1 decimal place. 6.5 m/s $2.1 \text{ cm}^3$ E 4 **3** It costs $\pounds 0.84$ to buy 6 bananas. В A Work out how much it would cost to buy 7 9 1 3 7 bananas. 17 19 21 11 13 2 £0.98 5 15 A number is chosen at random from the universal set, $\mathscr{E}$ . What is the probability that the number is in the set $A \cap B$ ? 5 6 Write 12 500 000 in standard form. Given that a:b = 4:3 and b:c = 4:1Find the ratio *a:b:c* $1.25 \times 10^7$ Give your answer in its simplest form. $16 \cdot 12 \cdot 3$ 7 8 The triangles are mathematically similar. Solve the simultaneous equations: x + 5y = 3912 cm x cm 4x + 3y = 2010 cm 15 cm x = -1Calculate the value of *x*. y = 88 9 10 Dave invests £4200 for 4 years in a savings A account. 10.2 cm He gets 3% per annum compound interest. 4.8 cm How much money does Dave have at the end of 4 years. B f4727.14 9 cm Calculate the length of BC.

