Foundation (Grade 5) GCSE Mini Test 4	
<ul> <li>A car travels at an average speed of 65 miles per hour for 2 hours and 40 minutes.</li> <li>Work out distance travelled by the car. Give your answer to 1 decimal place.</li> </ul>	<ul> <li>A piece of silver has a mass of 650 grams and a volume of 62 cm<sup>3</sup>.</li> <li>Work out the density of the piece of silver.</li> </ul>
<b>3</b> It takes 5 builders 4 days to build a wall. Work out how many days it would take 2 builders to build the same wall.	<b>4</b> Given that $P(B) = 0.65$ , find $P(B')$
<b>5</b> Calculate $(7 \times 10^6) \times (2.5 \times 10^{-2})$ Give your answer in standard form.	<ul> <li>6 Glen and Harper share some money in the ratio 2:3. Glen gets £G and Harper gets £H</li> <li>India and Jade share the same amount of money as Glen and Harper. They share their money in the ratio 5:1 India gets £I and Jade gets £J</li> <li>Find G:H:I:J</li> </ul>
7 The triangles are mathematically similar. 2.2  cm $x  cm2.6  cm$ $7.8  cmCalculate the value of x.$	8 Solve the simultaneous equations: 7x + 2y = 23 5x - 4y = 30
<b>9</b> $A$ 1.6 cm $B$ 1.2 cm Calculate the length of $AC$ .	<ul> <li>Peter bought a new car for £16000.</li> <li>In the first year the value of the car depreciates by 25%.</li> <li>In the second year and the third year the car depreciates by 15%</li> <li>Work out the value of the car after three years.</li> </ul>

<b>11</b> <b>a</b> <b>a</b> <b>b</b> <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	<b>12</b> Jon plays a game where he can win, draw or lose. The probability Jon wins any game 0.6 The probability Jon draws any game is 0.3 Jon plays two games. Draw a probability tree to represent this information.
<b>13</b> Make <i>n</i> the subject of $m = n^2 - 5$	<b>14</b> Write down the turning point of the graph $-4 - 3 - 2 - 10$ $1 - 2 - 3 - 4$
<b>15</b> Factorise fully: $30x^2 + 18x$	<b>16</b> A line passes through the point (0, -8). The gradient of this line is 2. Write down the equation of this line.
<ul> <li><b>17</b> The cost of a council tax bill increased by 5%. The council tax bill increased by £38</li> <li>Work out the cost of the council tax bill before the increase.</li> </ul>	<b>18</b> Solve: $a^2 - 10a + 21 = 0$
<b>19</b> B $32^{\circ}$ C 15  cm A Calculate the length <i>BC</i> .	<b>20</b> The bearing of A from B is 105° Find the bearing of B from A.
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