Foundation GCSE Mini Test 2		
<b>1</b> Decrease £9500 by 7% £8835	<ul> <li>Alex has some marbles. Billie has three times as many marbles are Alex. Chris has 9 fewer marbles than Billie.</li> <li>In total they have 68 marbles. How many marbles does Alex have?</li> <li>11</li> </ul>	
<b>3</b> Here are the first 5 terms of a sequence. 2 9 16 23 30 Find an expression, in terms of <i>n</i> , for the <i>n</i> th term of this sequence. 7n - 5	<ul> <li>The probability that a biased dice will land on a 6 is 0.32</li> <li>The dice is going to be rolled 200 times.</li> <li>Work out an estimate for the number of times the dice will land on 6.</li> </ul>	
5 Work out $2\frac{3}{4} + 1\frac{3}{7}$ $\frac{117}{28}$ or $4\frac{5}{28}$	<b>6</b> Describe fully the single transformation that maps trapezium $P$ on trapezium $Q$ . Reflection in $-1$ the y axis	
7 The volume of the cuboid is 360 cm <sup>3</sup> . Find the value of x. $6 \text{ cm} \qquad 5$ $12 \text{ cm} \qquad 12 \text{ cm}$	<ul> <li>8 A car is 5.7 metres long.</li> <li>A scale model of the car is being made.</li> <li>The scale of the model is 1:50</li> <li>Work out the length of scale model.</li> <li>Give your answer in centimetres.</li> <li>11.4 cm</li> </ul>	
<ul> <li>9 The size of each exterior angle in a regular polygon is 15°</li> <li>Work out how many sides the polygon has.</li> <li>24</li> </ul>	<b>10</b> The ratio of red pens to green pens is 5:4 Write down the fraction of pens that are red. $\frac{5}{9}$	

<b>11</b> x	Work out the mean mean meanPoints01020	Frequency 9 11 18	per game.	. <b>12</b> Work out an estimate for the value of $\frac{50.6 \times 19.21}{0.47}$ 2000 (or 2040 or 1900)
	30	7	15.1	1
13	Simplify $4m^3$	$m^2 \times 5m^2n$		<b>14</b> Solve $3(2n-5) < 15$
	20m <sup>5</sup> n <sup>3</sup>			n < 5
15	A circle has a diame	eter of 16 cm.		16
	Work out the circum Give your answer in	n terms of $\pi$ .	vircle.	
	161	τcm		Write down the size of angle y. 67 <sup>0</sup> Give a reason for your answer. Colnterior Angles add to 18
17	<b>17</b> Write 140 as a product of its prime factors.		factors.	<b>18</b> Richard buys a car for £14 000 He sells the car for £9 100
$2 \times 2 \times 5 \times 7$ or $2^2 \times 5 \times 7$				Work out Richard's percentage loss.
19	rla is an haliday in I	toly		20
Carla is on holiday in Italy. She spends $\notin$ 45 in a restaurant. The exchange rate is $\notin$ 1 = £0.89 Calculate how much Carla spends in pounds (£). £40.05			ounds (£).	Dave is making cookies. He mixes flour, butter and sugar in the ratio 5:4:1 Dave uses 220 grams of butter. Work out how much flour and sugar Dave uses. 275 grams of flour 55 grams of sugar
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