

Name: _____

September 27	5-a-day	Higher								
<p>In May 2011, the population of a country was 32 million. By May 2012, the population had increased by 4%</p> <p>Work out the population in May 2012.</p>										
<p>Explain what is meant by a stratified sample.</p>										
<table border="1" data-bbox="169 972 764 1055"><thead><tr><th data-bbox="169 972 320 1010">Teachers</th><th data-bbox="320 972 472 1010">Teaching Assistants</th><th data-bbox="472 972 624 1010">Admin</th><th data-bbox="624 972 764 1010">Other</th></tr></thead><tbody><tr><td data-bbox="169 1010 320 1055">94</td><td data-bbox="320 1010 472 1055">16</td><td data-bbox="472 1010 624 1055">41</td><td data-bbox="624 1010 764 1055">29</td></tr></tbody></table> <p>A sample of 30 is selected by stratified sampling. How many "Other" are selected?</p>	Teachers	Teaching Assistants	Admin	Other	94	16	41	29		
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94	16	41	29							
<p>A is directly proportional to the square root of B.</p> <p>When $A = 120$, $B = 4$.</p> <p>Find A in terms of B.</p>										
<p>Prove $(2n + 2)^2 - (2n + 2)$ is always even.</p>										