

National 5

Short Task 4

Round all answers to an appropriate degree of accuracy unless specifically stated

1. Evaluate $64^{-2/3}$
2. Calculate the gradient of the line joining the points (2,7) and (5,11).
3. Simplify $\sqrt{32} - \sqrt{8} + 3\sqrt{2}$
4. Evaluate $1\frac{3}{8} \div 4\frac{2}{5}$
5. Fully factorise $5x^2 - 5$.
6. A population of butterflies is measured at 32 400. It is expected to decrease at a rate of 11% per year for the next 4 years.
 - a) Calculate the expected population after 4 years.
Round your answer correct to 3 significant figures
 - b) Work out the overall percentage decrease in the population over this time.