Pointon & Sangwin Style Task: **The Mean**

1. Factual Recall Write a formula for finding the mean.	2. Carry out a routine, calculation or algorithm Find the mean of these values: 6 4 11 8 6	3. Classify some mathematical object For each set of values, say whether the mean is: **greater than 4** **less than 4** **equal to 4** a) 4 4 4 4 3 4 4 4 b) 4 5 4 4 4 4 4 4 c) 3 4 4 4 4 4 4 5	4. Interpret a situation or answer In a test the mean score was 64%. In the next test the mean went down. Which of these are true? • Everyones score went down. • At least one persons score went down. • Someones score may have gone up. • The highest score in the first test is greater than the highest score in the second test.
5. Prove, show, justify Show that if you double each number in a set of values, the mean of the set will double too.	6. Extend a concept Find the missing value. 11 5 7 8 **?** $\bar{x} = 8$	7. Construct an instance Construct a set of five different odd numbers that has a mean of 7.	8. Criticise a fallacy *" The mean is always positive"* Explain why this is not true and give an example.