|  |  |  |
| --- | --- | --- |
| **Question 1**  The mean, median and mode of the numbers in the boxes below are the same. What is the missing number?  ../uploads/users/1339/images/img-1339-1483044451-976.png |  | **Question 2**  The six-member squad for the Ladybirds five-a-side team consists of a 2-spot ladybird, a 10-spot, a 14-spot, an 18-spot, a 24-spot and a pine ladybird (on the bench). The average number of spots for members of the squad is 12. How many spots has the pine ladybird? |
|  |  |  |
| **Question 3**  Karen was given a mark of 72 for Mayhematics. Her average mark Mayhematics and Mathemagics was 78. What was her mark for Mathemagics? |  | **Question 4**  It is well known that the Pobble has no toes, and that the three-toed sloth has 12 toes (3 on each of its 4 feet). A synchronised swimming team is made up of 7 Pobbles and 5 three-toed sloths. What is the mean number of toes per team member? |
|  |  |  |
| **Question 5**  The range of a list of integers is 20, and the median is 17. What is the smallest possible number of integers in the list? |  | **Question 6**  On four tests, each marked out of 100, my average was 85. What is the lowest mark I could have scored on any one test? |
|  |  |  |
| **Question 7**  The mean score of the students who took a mathematics test was 6. Exactly 60% of the students passed the test. The mean score of the students who passed the test was 8. What was the mean score of the students who failed the test? |  | **Question 8**  What value of   makes the mean of the first three numbers in this list equal to the mean of the last four?  15 5 7 9 17 |
|  |  |  |
| **Question 9**  Viola has been practising the long jump. At one point, the average distance she had jumped was 3.80 m. Her next jump was 3.99 m and that increased her average to 3.81 m. After the following jump, her average had become 3.82 m. How long was her final jump? |  | **Question 10**  When one number was removed from the set of positive integers from 1 to , inclusive, the mean of the remaining numbers was 4.75. What number was eliminated? |