AIMS Maths Competition 2021 Junior Round 1

1 The value of $(8 \times 4) + 3$ is
(**A**) 96   (**B**) 15   (**C**) 56   (**D**) 35   (**E**) 28

2 The value of $9^2 - \sqrt{9}$ is
(**A**) 0   (**B**) 6   (**C**) 15   (**D**) 72   (**E**) 78

3 What integer should be placed in the $\boxed{}$ to make the statement $\boxed{} - 5 = 2$ true?
(**A**) 7   (**B**) 4   (**C**) 3   (**D**) 1   (**E**) 8

4 If Mukesh got 80% on a test which has a total of 50 marks, how many marks did he get?
(**A**) 40   (**B**) 62.5   (**C**) 10   (**D**) 45   (**E**) 35

5 The sum $\frac{7}{10} + \frac{3}{100} + \frac{9}{1000}$ is equal to
(**A**) 0.937   (**B**) 0.9037   (**C**) 0.7309   (**D**) 0.739   (**E**) 0.0739

6 How many numbers in the list 11, 12, 13, 14, 15, 16, 17 are prime numbers?
(**A**) 0   (**B**) 1   (**C**) 2   (**D**) 3   (**E**) 4

7 The smallest number in the list $\{0.40, 0.25, 0.37, 0.05, 0.81\}$ is
(**A**) 0.40   (**B**) 0.25   (**C**) 0.37   (**D**) 0.05   (**E**) 0.81

8 In $\triangle PQR$, the sum of $\angle P$ and $\angle Q$ is $60°$. The measure of $\angle R$ is
(**A**) $60°$ (**B**) $300°$ (**C**) $120°$ (**D**) $30°$ (**E**) $40°$

9 If $3 + 5x = 28$, the value of x is
(**A**) 20   (**B**) 3.5   (**C**) 5   (**D**) 6.2   (**E**) 125

10 If 8% of a number is 12, what is 72% of the number?
(**A**) 108   (**B**) 72   (**C**) 9   (**D**) 80   (**E**) 120

150

11 In a class of 30 students, exactly 7 have been to Mexico and exactly 11 have been to England. Of these students, 4 have been to both Mexico and England. How many students in this class have not been to Mexico or England?
(**A**) 23   (**B**) 16   (**C**) 20   (**D**) 12   (**E**) 18

12 A square has an area of 25. A rectangle has the same width as the square. The length of the rectangle is double its width. What is the area of the rectangle?
(**A**) 25   (**B**) 12.5   (**C**) 100   (**D**) 50   (**E**) 30

13 If $100^{25} + 25$ is expressed as an integer, the sum of it's digits is:
(**A**) 50   (**B**) 52   (**C**) 26   (**D**) 30   (**E**) 219

14 Ange has 4 children between the ages of 13 and 19. The product (multiplcation) of their ages is 67184. The sum of their ages is:
(**A**) 50   (**B**) 52   (**C**) 26   (**D**) 30   (**E**) 219

15 Which of the following is closest to one million (10^6) seconds?
(**A**) 1 day   (**B**) 10 days   (**C**) 100 days   (**D**) 1 year   (**E**) 10 years