Numeric Reasoning Assessment

1. Present ages of Sameer and Anand are in the ratio of 5:4 respectively. Three years hence, the ratio of their ages will become 11:9 respectively. What is Anand's present age in years?

- ○ 27
- ◉ 24
- ○ Cannot be determined
- ○ 40

2. A reduction of 20% in the price of an apple enables a man to buy 10 apples more for Rs. 54. The reduced price of apples per dozen is:

- ○ Rs. 8.05
- ◉ Rs. 12.96
- ○ Rs. 15.60
- ○ Rs. 10.45

3. A stationary shop's bill is made up of the following:

- Erasers: $11.75
- Notebook: $34.25
- Markers: $14
- 10% add-on sales tax on total bill

How much is the bill?

- ○ $ 85
- ◉ $ 66
- ○ $ 71
- ○ $ 95

4. A library has an average of 510 visitors on Sundays and 240 on other days. What is the average number of visitors in a month of 30 days starting with Sunday?

- ○ 280
- ○ 290
- ◉ 285
- ○ 295

5. Running at the same constant rate, 6 identical machines can produce a total of 270 bottles per minute. At this rate, how many bottles could 10 such machines produce in 4 minutes?

- ○ 10800
- ○ 648
- ○ 1800
- ○ 2700

6. Mr. X invested in a 5% stock at Rs. 94, which generates an income of Rs. 100. What is the total amount he invested in approximately?

- ○ Rs. 1400
- ◉ Rs. 1800
- ○ Rs. 1900
- ○ Rs. 1600

7. The sum of 8 consecutive odd numbers is 256. Also average of four consecutive even numbers is 100. What is the sum of the smallest odd number and second largest even number?

- ◉ 51
- ○ 53
- ○ 214
- ○ 212

8. The sum of two number is 25 and their difference is 13. Find their product.

- ○ 325
- ◉ 114

○ 104
○ 315

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9. Two fair dice are thrown. Find the probability that the sum of the numbers on their upper faces is divisible by 9.
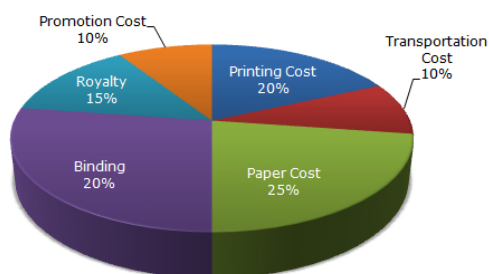
○ 2/11
○ 9/10
○ 1/10
⦿ 1/9

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10. Find the wrong number in the given sequence:

8, 27, 64, 100, 125, 216, 343

○ 125
○ 27
○ 343
⦿ 100

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11. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book.

Various Expenditures (in percentage) Incurred in Publishing a Book

If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be the amount of royalty to be paid for these books?

⦿ Rs. 22,950
○ Rs. 21,200
○ Rs. 26,150
○ Rs. 19,450

Adam's Activity by Energy Expenditure Table (weekly average over one year)				
	Sitting	Walking	Running	Cycling
Speed (km/hr)	–	7	12	16
Duration of each occurrence (hours)	8	1	0.75	1.25
Energy Expenditure (KJ/min)	6	21	36	28
Times done per week	7	5	3	2

* 1 kcal = 4.184 kJ, 1 MJ = 239 kcal

** 1 kilojoule (kJ) = 1,000 joules, 1 megajoule (MJ) = 1,000,000 joules

12. What is Adam's weekly energy expenditure difference between walking and cycling in megajoules?

⦿ 2.1
○ 3.6
○ 1.4
○ 4.9

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13. There are two consecutive discounts of 35% and 10% on a saree. If a person paid Rs. 1170 for that saree, then what was the original price of the saree before the discounts?

○ Rs.1,200
○ Rs.1,400
⦿ Rs. 2,000
○ Rs.1,800

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14. A question has two parts, Part A and Part B, each containing 8 questions. If the students have to choose 6 questions from part A and 5 questions from Part B, in how many ways can they choose the questions?

- ◉ 1568
- ○ 728
- ○ 255
- ○ 1558

15. Aisha does 70% of some work in 15 days. Later, with Ali's help, she completes the remaining work in 4 days. In how many days can Ali alone complete the entire work?

- ○ 33.3 days
- ○ 38.3 days
- ○ 45.3 days
- ◉ 35.3 days

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