**General Questions & Answers[6-8]**

1. **Q:** What do you call a triangle with all sides equal?  
   **A:** Equilateral triangle
2. **Q:** There were some people on a train, 19 people get off the train at the first stop and 17 people get on the train. If there were altogether 63 people on the train, what were the number of people at the beginning?  
   **A:** 65
3. **Q:** In a class, 40% are boys. If there are 30 students altogether, how many are girls?  
   **A:** 18
4. **Q:** A rope is cut into 5 equal parts in such a way that each part is 3.2 meters long. The total length of the rope is \_\_\_\_ metres.  
   **A:** 16
5. **Q:** In how many different ways can the letters of the word MATH be arranged?  
   **A:** 24
6. **Q:** The diagonal of a square is 10 cm. The area of the square is \_\_\_\_ cm².  
   **A:** 50
7. **Q:** Write the smallest odd composite number.  
   **A:** 9
8. **Q:** How many prime numbers are there between 1 and 50?  
   **A:** 15
9. **Q:** Name a shape with a circular base and pointed top.  
   **A:** Cone
10. **Q:** If a triangle has angles of 30° and 60°, what is the measure of the third angle?  
    **A:** 90°
11. **Q:** What is the value of 2⁵?  
    **A:** 32
12. **Q:** If a rectangle has a length of 10 cm and a width of 5 cm, its area?  
    **A:** 50 cm²
13. **Q:** What 3-digit number has digits that add up to 6, and is the same when reversed?  
    **A:** 303
14. **Q:** If a car travels at a speed of 60 km/h for 2 hours, how far does it travel (in km)?  
    **A:** 120
15. **Q:** If the diameter of a circle is 7 cm, its circumference is: \_\_\_ cm.  
    **A:** 22
16. **Q:** What is the next number in the sequence: 1, 3, 9, 27, ...?  
    **A:** 81
17. **Q:** What is the value of π (pi) to two decimal places?  
    **A:** 3.14
18. **Q:** A small number of cards has been lost from a complete pack. If I deal among four people, three cards remain. If I deal among three people, two remain and if I deal among five people, two cards remain. How many cards have been lost from the pack?  
    **A:** 5
19. **Q:** You know 2 + 2 comes to the same as 2 × 2. Now find a set of three different whole numbers whose sum is equal to their total when multiplied.  
    **A:** 1, 2, 3
20. **Q:** A man buys a horse for Rs. 60. He sells it for Rs. 70. Then, he buys it back for Rs. 80 and sells it again for Rs. 90. The total profit or loss made by him is Rs. \_\_\_\_.  
    **A:** 20

# ****Relay Questions and Answers[6-8]****

### **Set 1**

1. **Q:** What is 15% of 80  
   **A:** 12
2. **Q:** Solve: 3x + 4 = 19  
   **A:** 5
3. **Q:** Find the area of a triangle with base 10 cm and height 5 cm.  
   **A:** 25 cm²
4. **Q:** What is the value of 7²?  
   **A:** 49

### **Set 2**

1. **Q:** What is the square root of 81:  
   **A:** 9
2. **Q:** Simplify: (2/5) + (1/10)  
   **A:** 1/2
3. **Q:** How many edges does a cube have?  
   **A:** 12
4. **Q:** A train travels 60 km in 1.5 hours, what is its speed in kmph?  
   **A:** 40

### **Set 3**

1. **Q:** Convert 0.125 to a fraction  
   **A:** 1/8
2. **Q:** What is the volume of a cube with side 4 cm  
   **A:** 64 cm³
3. **Q:** The value of x² - 9 for x = -3 is \_\_\_.  
   **A:** 0
4. **Q:** What is the LCM of 6 and 8?  
   **A:** 24

### **Set 4**

1. **Q:** What is the HCF of 15 and 18?  
   **A:** 3
2. **Q:** Solve: 5(2x + 1) = 20.  
   **A:** 1.5 or 3/2
3. **Q:** How many degrees are there in a straight angle?  
   **A:** 180
4. **Q:** If a = 3 and b = 4, find a² + b².  
   **A:** 25