**General Questions [1-5]**

1. **The smallest two-digit number is:**  
   Ans: **10**
2. **If 2x + 4 = 12, what is x?**  
   Ans: **4**
3. **The product of 4 and 6 is:**  
   Ans: **24**
4. **How many English alphabet 'A' are there from counting numbers 1 to 100?**  
   Ans: **0**
5. **The missing number in the expression 3² + 4² = \_\_² is:**  
   Ans: **5**
6. **What is 20% of 150?**  
   Ans: **30**
7. **The perimeter of a square with length of its side 5 cm is:**  
   Ans: **20 cm**
8. **If a triangle has two of its angles 30° and 60°, the third angle will be:**  
   Ans: **90°**
9. **What is the next number in the sequence: 10, 20, 30, 40, ...?**  
   Ans: **50**
10. **How many sides are there in a regular Pentagon?**  
    Ans: **5**
11. **What is the square root of 169?**  
    Ans: **13**
12. **The geometrical shape that has no sides and no corners is:**  
    Ans: **Circle**
13. **2.5 hours = \_\_\_\_\_ minutes**  
    Ans: **150**
14. **The area of a rectangular field with length 8 m and breadth 5 m is:**  
    Ans: **40 m²**
15. **If 2(x + 3) = 16, then the value of x is:**  
    Ans: **5**
16. **What is the average of 10, 20, and 30?**  
    Ans: **20**
17. **If a car travels 60 km in 1 hour, how far will it travel in 3 hours?**  
    Ans: **180 km**
18. **If a triangle has sides of lengths 3 cm, 4 cm, and 5 cm, what type of triangle is it?**  
    Ans: **Right-angled triangle**
19. **Find the missing number: 5, 10, 15, \_\_, 25**  
    Ans: **20**
20. **What is the sum of the angles in a triangle?**  
    Ans: **180°**

## 🏃‍♂️ **Relay Questions Set 1**

1. **What is 5 × 6?**  
   **Ans:** 30
2. **Solve 5² - 3²**  
   **Ans:** 16
3. **The value of ¾ × 20 is:**  
   **Ans:** 15
4. **Solve for x if 2x - 5 = 15**  
   **Ans:** 10

## 🏃‍♀️ **Relay Questions Set 2**

1. **What is 12 + 15?**  
   **Ans:** 27
2. **Solve: 3x = 21**  
   **Ans:** 7
3. **The value of 8 - 3 × 2 is:**  
   **Ans:** 2
4. **Solve for y if 4(y + 3) = 32**  
   **Ans:** 5

## 🏃 **Relay Questions Set 3**

1. **What is 3 × 9?**  
   **Ans:** 27
2. **Solve: 5x = 25**  
   **Ans:** 5
3. **The value of 5 - 1 × 4 is:**  
   **Ans:** 2
4. **Solve for x if 4x + 3 = 15**  
   **Ans:** 3

## 🏁 **Relay Questions Set 4**

1. **What is 7 + 8?**  
   **Ans:** 15
2. **Solve: 2x + 4 = 12**  
   **Ans:** 4
3. **The value of 6 - 2 × 3 is:**  
   **Ans:** 0
4. **Solve for z if 3z - 6 = 9**  
   **Ans:** 5

## ✅ **MCQ Questions (with correct answers)**

1. **A straight line has \_\_\_ end points.**  
   Options: 0, 1, **2**, 3, 4  
   **Ans: 2**
2. **What is the square root of 144?**  
   Options: 11, **12**, 13, 14, 15  
   **Ans: 12**
3. **Which of these is a prime number?**  
   Options: 15, 21, **29**, 33, 39  
   **Ans: 29**
4. **The total number of wheels in 5 bicycles is:**  
   Options: 5, **10**, 15, 20, 25  
   **Ans: 10**
5. **If yesterday was Sunday, what day is tomorrow?**  
   Options: Sunday, Monday, **Tuesday**, Wednesday, Thursday  
   **Ans: Tuesday**
6. **Which one is the smallest even prime number?**  
   Options: **2**, 4, 6, 8, 10  
   **Ans: 2**
7. **The smallest whole number is:**  
   Options: **0**, 1, 2, 3, 4  
   **Ans: 0**
8. **Half an hour is equal to how many minutes?**  
   Options: 15, **30**, 45, 60, 90  
   **Ans: 30**

## 🎯 **Target Number Problems**

Use the given numbers and mathematical operations to reach the target.

1. Numbers: 3, 5, 7, 9 → Target: 24  
   **Solution:** 3 + 5 + 7 + 9
2. Numbers: 1, 3, 5, 7 → Target: 2  
   **Solution:** 1 + 3 + 5 - 7
3. Numbers: 8, 2, 6, 4 → Target: 14  
   **Solution:** 8 ÷ 2 + 6 + 4
4. Numbers: 2, 5, 7, 9 → Target: 8  
   **Solution:** 2 × 5 + 7 – 9

**ROUND 1 : General Questions [9-12]**

1. **Q:** The value of the expression 1 + 2 + 3 + ....... + 10 is \_\_\_\_.  
   **A:** 55
2. **Q:** If the CP of 5 pens is equal to the SP of 4 pens, the profit percentage will be \_\_\_%.  
   **A:** 25
3. **Q:** How many total square shapes with each side 2 cm can be made from a single square whose each side is 10 cm?  
   **A:** 25
4. **Q:** Which English alphabet represents '1000' in Roman numerals?  
   **A:** M
5. **Q:** The TSA of a cubical box with length of each side 6 cm is \_\_\_\_cm²:  
   **A:** 216
6. **Q:** The amount of water that can be filled in a tank with length of each side 5m is \_\_\_\_\_\_ litres.  
   **A:** 125,000
7. **Q:** If one pipe fills water in a tank at the speed of 5 litre/sec and another pipe discharges it at 3 litre/sec, how many hours it takes to completely fill the tank of 120 litres if both the pipes run at the same time?  
   **A:** 1
8. **Q:** When is the PI-Day observed every year? (Format: Month DD).  
   **A:** March 14
9. **Q:** What is the next number in the sequence: 0, 1, 1, 2, 3, 5, 8, .......?  
   **A:** 13
10. **Q:** How many prime numbers are there between 1 to 100?  
    **A:** 25
11. Q: An elevator takes 6 seconds to go up one floor and 4 seconds to come down one floor. If a person starts from the 1st floor, goes to the 10th floor, and returns to the 1st floor, how many seconds does it take?  
    A: 90
12. Q: A group of students forms a circle. Each student shakes hands with every other student. If a total of 66 handshakes took place, how many total students are there?  
    **A:** 12
13. **Q:** If 1 = 3, 2 = 3, 3 = 5, 4 = 4, 5 = 4, then 6 = \_\_\_\_\_?  
    **A:** 3
14. **Q:** Use eight 8's and only addition operation in such a way that the result is 1000.  
    **A:** 888+88+8+8+8=1000
15. **Q:** An image will be shown on the next screen. Watch very carefully and identify the number of parking space covered by the car.  
    **A:** 87
16. **Q:** Ms. Sita has 4 daughters. Each of her daughters has a brother. What is the total number of children she has?  
    **A:** 5
17. **Q:** If a car travels 60 km in 1 hour, how far will it travel in 3 hours?  
    **A:** 180
18. **Q:** A recipe requires 4 eggs to make 24 cookies. How many eggs are needed to make 60 cookies?  
    **A:** 10
19. **Q:** Priya had 16 red balls, 2 green balls, and 9 blue balls. If she lost 9 red balls, 1 green ball, and 3 blue balls, how many balls would be left?  
    **A:** 15
20. **Q:** An elevator starts on the 1st floor and goes up 20 floors. It takes 6 seconds to go up each floor and 4 seconds to come down each floor. However, every 5th floor it stops for 15 seconds. What seconds does it take to reach to the 20th floor?  
    **A:** 159

### ROUND 2 : Relay Questions[9-12]:

#### Group 1:

1. **Q:** The full form of LCM is :  
   **A:** Least Common Multiple
2. **Q:** Solve: 3x + 4 = 16  
   **A:** 4
3. **Q:** If the radius of a circle is 7cm, its diameter is \_\_\_ cm.  
   **A:** 14
4. **Q:** If in a code, APPLE is written as BQQMF, how is BANANA written?  
   **A:** CBOBOB

#### Group 2:

1. **Q:** The full form of HCF is :  
   **A:** Highest Common Factor
2. **Q:** Solve : 5k + 10 = 35  
   **A:** 5
3. **Q:** If the diameter of circle is 10 cm, its radius will be \_\_\_cm.  
   **A:** 5
4. **Q:** If in a code, CAT is written as BZS, how is DOG written?  
   **A:** CNF

#### Group 3:

1. **Q:** The full form of VAT is:  
   **A:** Value Added Tax
2. **Q:** Solve : 2y - 5 = 21  
   **A:** 13
3. **Q:** If the diameter of circle is 7cm, its circumference is : \_\_\_cm.  
   **A:** 22
4. **Q:** If in a code, DOG is written as EPH, how is CAT written?  
   **A:** DBU

#### Group 4:

1. **Q:** The most repeated element in an arranged data is called its \_\_\_\_\_.  
   **A:** Mode
2. **Q:** Solve : 3z - 6 = 9  
   **A:** 5
3. **Q:** If the length of a square is 12m, its perimeter is \_\_\_m.  
   **A:** 48
4. **Q:** If FRIEND is written as HTKGPF, how is SCHOOL written?  
   **A:** UEJQQN

**ROUND 3: CTFS Round Expressions[9-12]:**

1. **Expression:** 3 \* 6 + 2 / 4 - 1 \* 2 + 5  
   **Answer:** 13
2. **Expression:** 12 / 3 + 5 \* 2 + 2 - 4 / 8  
   **Answer:** 2
3. **Expression:** 7 \* 3 + 4 / 5 + 3 - 5 \* 5  
   **Answer:** 15
4. **Expression:** 10 \* 6 / 4 - 1 + 4 - 3 / 5  
   **Answer:** 3
5. **Expression:** 6 \* 9 + 6 / 5 - 2 + 6 / 4 \* 8  
   **Answer:** 32
6. **Expression:** 8 \* 2 + 4 / 2 + 8 - 15 \* 8 / 6  
   **Answer:** 4
7. **Expression:** 20 / 5 + 3 \* 2 - 3 + 9 / 5 \* 7 - 6  
   **Answer:** 22
8. **Expression:** 15 - 6 / 3 + 2 \* 5 - 8 \* 3 - 9 / 2  
   **Answer:** 21
9. **Expression:** 10 - 3 \* 3 + 4 / 5 - 1 \* 8 - 6 / 2  
   **Answer:** 13

**ROUND 4 : Target Problems:**

1. **Numbers:** [1, 4, 6, 9]  
   **Target:** 1  
   **Solution:** 1\*4 + 6 - 9
2. **Numbers:** [2, 3, 5, 7]  
   **Target:** 10  
   **Solution:** 2 + 3\*5 - 7
3. **Numbers:** [8, 4, 6, 3]  
   **Target:** 16  
   **Solution:** 6\*3 - 8 / 4
4. **Numbers:** [2, 5, 7, 9]  
   **Target:** 40  
   **Solution:** 9\*5 + 2 - 7