

# Mathematics Olympiad

## Downloadable Mock

### Level 5

#### General Instructions:

1. Please note it is a Mock Paper. The questions might differ in the final exam.
2. The exam should be answered using pencil on the question paper itself.
3. Please read the questions carefully before answering them

#### Student Details:

Name \_\_\_\_\_

Std \_\_\_\_\_

#### Q1. Solve the following.

$$\frac{2}{3} \times \frac{6}{5} = \underline{\hspace{2cm}}$$

$$1 \div \frac{8}{9} = \underline{\hspace{2cm}}$$

$$8 \frac{3}{4} + 12 \frac{6}{4} = \underline{\hspace{2cm}}$$

742.72  
X 130.0

**Q2. Find the following.**

1. HCF of 119 and 136.

2. LCM of 22,36 and 48.

**Q3. What would you add to the following numbers as the last digit to make them divisible by the following.**

1. Divisible by 3

a. 2184

2. Divisible by 4

a. 59843

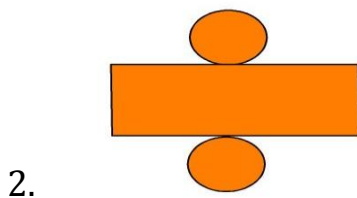
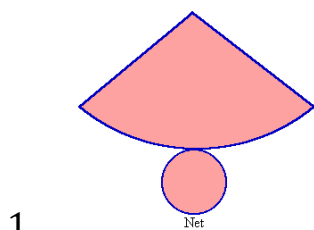
**Q4. Draw the angle and identify its types.**

120°

**Q5. Solve the below given word problems.**

1. Out of 207 students staying at a boarding school in Shimla,  $\frac{2}{3}$  were boys and the rest were girls.  $\frac{2}{6}$  of the girls went home for the holidays. How many girls stayed back in the hostel?
  
  
  
  
  
  
  
  
  
  
2. Find the area of a field with length 105 m and breadth 90 m. Also find the length of fence required to be put around the field.

**Q6. Which shape would be formed with the following nets.**



**Q7. The number of students having birthdays in the different months of the year is given below.**

| Months         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| No of students | 3   | 4   | 2   | 3   | 8   | 10  | 6   | 1   | 7   | 8   | 4   | 7   |

**Draw the bar graph to represent the data.**

**Q8. Solve the problem based on Profit and Loss**

Rizwan sold his tennis racquet for Rs. 1,680 and suffered a loss of Rs. 248. Find the cost price of the racquet.

**Q9. Use the appropriate sign. "<" or ">"**

1. 12% of 1700 \_\_\_\_\_ 18% of 1900

2.  $\frac{12}{8}$  \_\_\_\_\_  $\frac{8}{12}$