

Maths Olympiad Level 5

Sections	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	TOTAL
Marks obtained										

General Instructions:

1. Duration of the exam is one hour fifteen minutes.
2. The exam should be answered using pencil on the question paper itself.
3. Please read the questions carefully before answering them.
4. Fill in your details on this page before the exam begins.

Student Details:

Name _____

Std _____

Level Appearing for _____

Honour Code:

I pledge that I will not copy or take help from my friends/teachers while answering questions during this exam.

Signature/Name _____

Total Marks: 50

Q1. Tick the box if the number is divisible by the number in the header. (8)

Factors / Numbers	12	11	15	18
123244				
127296				
247515				
2436426				

Q2. Find the following.

(6)

1. HCF of 280,476 using long division.

2. LCM of 15,20 and 18 using division.

3. The product of two numbers is 1260. Their HCF is 6. What is their LCM?

Q3. Solve the following.

(10)

$$\frac{2}{5} \times \frac{4}{7} = \underline{\hspace{2cm}}$$

$$8 \div \frac{2}{4} = \underline{\hspace{2cm}}$$

$$4 \frac{1}{5} + 4 \frac{1}{3} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 0.495 \\ 14.84 \\ +\underline{11.1} \end{array}$$

$$\begin{array}{r} 518.44 \\ -\underline{142.55} \end{array}$$

$$\begin{array}{r} 412.55 \\ \times \underline{0.85} \end{array}$$

$$\begin{array}{r} \underline{2.3} \overline{)35.052} \end{array}$$

Q4. Use the appropriate sign. "<" or ">"

(4)

1. 45% of 312 _____ 30% of 125

2. $\frac{2}{7}$ _____ $\frac{4}{6}$

3. 5875 _____ 5^5

4. 0.45 _____ 0.54

Q5. Find the value of x.

(4)

1. $x : 11 :: 46 : 22$

2. $x = 3^8$

3. $5x + 5 = 35$

Q6. Solve the below given word problems.

(10)

1. The length and breadth of an assembly hall are in the ratio 5 : 3. If the length of the assembly hall is 15m. What is its breadth?

2. A theatre sold 485 tickets at Rs. 55.50 each for a show. The theatre owner decided to give half the money as a bonus to his employees. How much money did the theatre owner keep for himself?

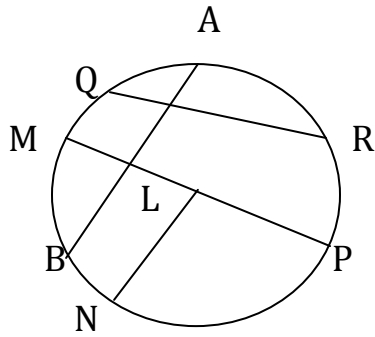
3. The Principle is Rs. 58,000 and the rate of interest is 12% and the period is 3 years. Calculate the Interest and Amount.?

4. Find the volume of a truck whose length is 7m, breadth is 3m and height is 4m?

5. Mr. Harry was given Rs. 6,85,850 when he retired from his service. He kept Rs. 1,35,000 for himself and distributed the rest equally among his four sons. What was each son's share?

Q7. In triangle ABC, $\angle A = 55^\circ$, $\angle B = 30^\circ$, Find $\angle C$ and say what type it is? (2)

Q8. Look at the geometric figures given below and fill in the blanks. (3)



Name the radii of the circle _____

Name a chord of the circle _____

Name an arc of the circle _____

Q9. Make a bar graph for the given data. (3)

The weights in Kgs. of some students in a class are given below.

Rahul	25
Ravi	35
Viraj	45
Michael	40
Sunita	30
Zeenat	25
Kavita	30
Sakshi	40