



Maths Olympiad

Downloadable Mock

Level 6

General Instructions:

1. Please note this is a mock paper. The questions may differ in the final exam. This is only for your practice.
2. The exam should be answered on the question paper itself.
3. Please read the questions carefully before answering them.

Student Details:

Name: _____

Level: _____

LMS ID: _____

School Name: _____

Q1. Solve the following.

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

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

Add:

329.6, 57.05, 82,852, 13

Simplify:

$$5 \frac{1}{4} \div [2 \frac{1}{4} - 3/8 \text{ of } \{ 4 - (\frac{1}{2} - \frac{1}{4}) \}]$$

Q2. Find the following.

1. HCF of 540 and 1512.

2. HCF and LCM of two numbers is 25 and 1050, respectively. If one number is 150, find the other.

Q3. What would you add to the following numbers to make them divisible by the following.

1. Divisible by 3
a. 2183

2. Divisible by 11
a. 43130

Q4. Draw as asked.

- a) 145° angle and write its type

b) 75° angle and write its type

c) 50° angle $\angle AOB$ and draw its bisector OC .

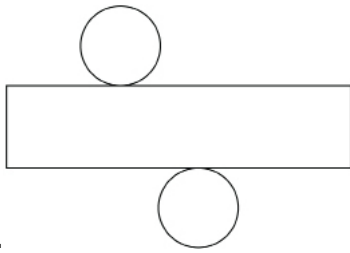
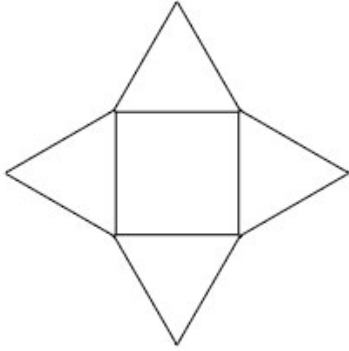
d) Equilateral triangle ABC with side 6 cm

e) Construct a circle of radius 1.5 cm.

Q5. Solve the below given word problems.

1. If 4 men can construct a wall in 5 days, how many days would be required to construct the wall with only 2 men?
2. Find the length of the rectangle whose perimeter is 40 cm and breadth is 5 cm.
3. Find the circumference of a circle with diameter 14 cm.

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



Q7. Answer the following questions.

1. If $x = 1$, $y = -2$, $z = 3$, find the value of the following.

$$x^3 + y^3 + z^3 - 3xyz$$

Q8. Use the appropriate sign. "<" or ">"

1. 32000 _____ 8^5

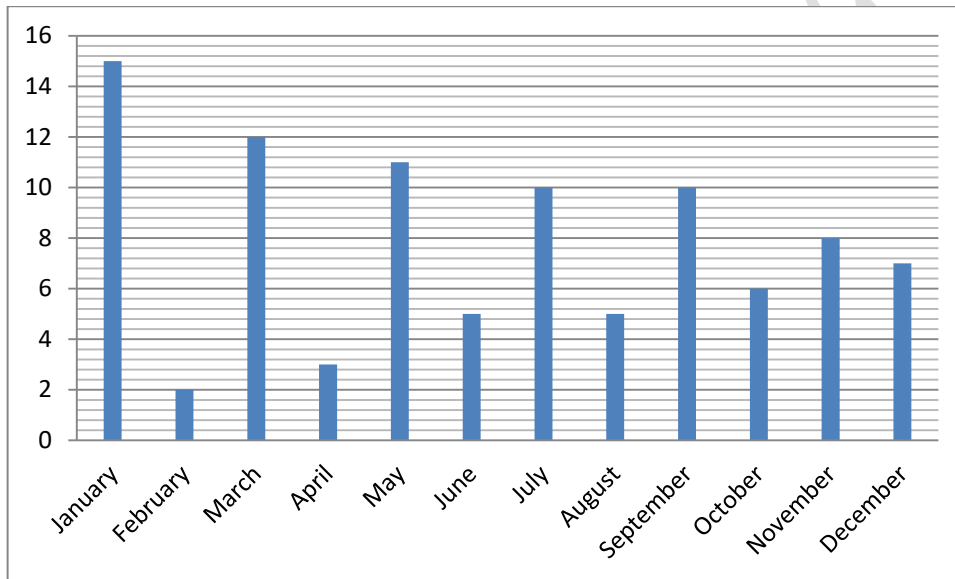
2. 0.19 _____ 1.09

3. -15 _____ -16

Q9. Find the mean and median of the below:

13,12, 18, 10, 3, 4, 8, 17, 1

Q10. Observe the graph shown below and answer the following questions.



1. What information does the graph represent?
2. How many students are there in the class?
3. Which month has the highest number of birthdays?