



# EHF

LEARNING FOR LIFE

## EDUHEAL FOUNDATION

# CLASS 6

## LEVEL - 1

## Set A1

### EHF OLYMPIADS

- 4000 schools • 6 lakh students
- 10 olympiads • Global outreach



### EHF

## NATIONAL INTERACTIVE MATHS OLYMPIAD

Name : .....

Roll No : .....

Class : .....

School : .....



**NATIONAL  
BIOTECHNOLOGY  
OLYMPIAD**



**NATIONAL  
MATHS  
OLYMPIAD**



**NATIONAL  
SCIENCE  
OLYMPIAD**



**INTERNATIONAL  
CYBER  
OLYMPIAD**



**INTERNATIONAL  
ENGLISH  
OLYMPIAD**



**INTERNATIONAL  
GENERAL KNOWLEDGE  
OLYMPIAD**



**BSE international finance olympiad (BIFO)**



**NATIONAL IIT-PMT OLYMPIAD (NIPO)**

**Level - 1 :** All Level-1 successful\* participants will get certificate, aptitude report and online subscription, and school toppers will be eligible for school hero medals.

**Level - 2 :** School toppers\* will be selected for level-2-National level - online computer based interactive test held at exam centres all over India. Besides selection for level-3, winner will get merit certificate, medals, educational CDs, laptop, scholarship and other prizes. There is no level-2 in Art and Cricket.

**Level - 3 :** Toppers will qualify\* for level-3-International level-where you will compete with students globally. Get selected for EHF's International Olympiad training camp. Only Indian organization giving students exposure to global competitions. Represent India & win laurels. Guidance by top scientists. Prizes ranges from cash (millions of \$), gadgets, foreign trips, publicity, fame, scholarships, Internships, conference participation and more.

\* # See prospectus/website for details

#### Instructions for the Candidate

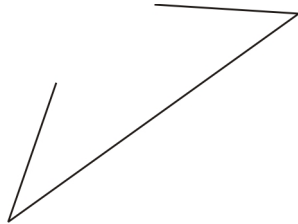
1. You are allowed additional 10 minutes to fill the required details in the RESPONSE SHEET (OMR).
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 25 Questions each to be answered in 40 minutes. The Question paper for classes 7 to 12 contains 50 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER.**

WEBSITE : [WWW.EDUHEALFOUNDATION.ORG](http://WWW.EDUHEALFOUNDATION.ORG)  
E-MAIL : [INFO@EDUHEALFOUNDATION.ORG](mailto:INFO@EDUHEALFOUNDATION.ORG)

# ROUGH WORK

# MENTAL ABILITY

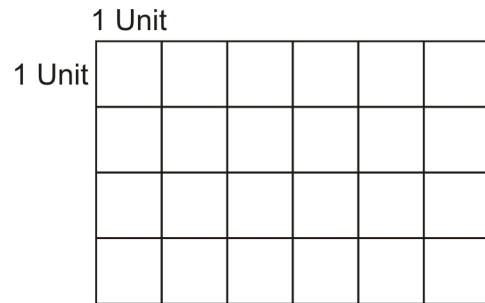
1. Shown below is a part of a triangle with one of its angles missing. The measure of the missing Angle is



- (1)  $90^\circ$   
 (2) Less than  $90^\circ$   
 (3) More than  $90^\circ$   
 (4) None of these
2. Which of these lies between 6.3 and 6.6?  
 (1) 6.2  
 (2) 6.9  
 (3) 6.41  
 (4) None of these
3. Sheena divides a number by 2. She then divides the answer by 2. This is the same as dividing the original number by  
 (1) 1

- (2) 2  
 (3) 4  
 (4) None of these

4.  $1024 + 1025 + \underline{\hspace{2cm}} = 1025 + 1025 + 1025$   
 What number will come in the blank to make the number sentence true?  
 (1) 1024  
 (2) 1025  
 (3) 1026  
 (4) None of these
5. A wall is made up of square bricks of unit length. Then its area is \_\_\_\_\_.



- (1) 8 sq units  
 (2) 21 sq units  
 (3) 24 sq units  
 (4) None of these

# MATHEMATICS



6. Meenu has bought 6 pens. The cost of each pen was between ₹25 and ₹30. Which of these could be the total cost of the pens?  
 (1) ₹55  
 (2) ₹126

- (3) ₹173  
 (4) None of these
7. In the table tennis match, the ratio of the number of girls to the number of boys was 4:7. 18 more girls joined the club and the number of girls and the boys became the same. How many pupils were in the club?  
 (1) 84  
 (2) 42  
 (3) 74  
 (4) None of these

8. Express 50 minutes as a ratio of 2 hours 5 minutes.

- (1) 2:3
- (2) 4:5
- (3) 2:5
- (4) None of these

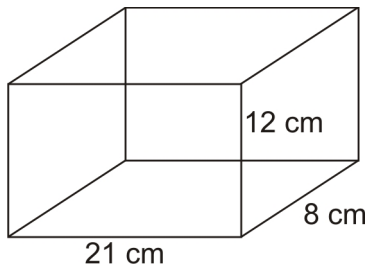
9. Rohit has 918 marbles. He wants to make packets of marbles with, 9 marbles in each packet. How many packets will he be able to make?

- (1) 12
- (2) 102
- (3) 120
- (4) None of these

10. Ruchi went to a book store with ₹480, which was just enough to buy 15 files and 10 pens. When she reached there, she bought 14 files and 11 pens instead and had ₹27 left. Find the cost of 1 pen.

- (1) ₹3
- (2) ₹5
- (3) ₹7
- (4) None of these

11. What is the maximum number of 4 cm cubes that can be cut from a wooden cuboid measuring 21 cm by 8 cm by 12 cm?



- (1) 30
- (2) 31
- (3) 120
- (4) None of these

12. In a car park, there are four times as many cars as vans. The number of cars is thrice the number of scooters. The total number of wheels these vehicles have is 3485. How many cars are parked at the car park?

- (1) 410
- (2) 465
- (3) 615
- (4) None of these

13. Complete the following number pattern:

100, 121, 144, \_\_\_\_\_, \_\_\_\_\_, 225, 256

- (1) 165, 187
- (2) 169, 196
- (3) 185, 227
- (4) None of these

14. A story telling session in school started at 1:30 pm and ended at 5:05 pm. How long was the session?

- (1) 2 h 55 mins
- (2) 3 h 35 mins
- (3) 3 h 55 mins
- (4) None of these

15. Anita prepared 25 cupcakes. She packs all of them into boxes. Each box holds at least 2 cupcakes. Which of the following cannot be the total number of boxes she used?

- (1) 6
- (2) 7
- (3) 9
- (4) None of these

16. 182 stars and hearts are arranged in the following pattern:

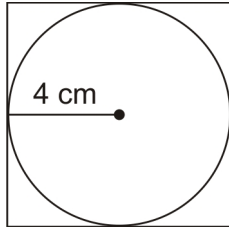


How many stars are altogether?

- (1) 45

- (2) 46
- (3) 48
- (4) None of these

17. A circle is inscribed in a square as shown below. If the radius of the circle is 4 cm, then the perimeter of the square is



- (1) 12 cm
- (2) 16 cm
- (3) 32 cm
- (4) None of these

18. Sonu wanted to implant some vertical stones along the boundary of his plot at a distance of 10 m each. If the length of the plot is 30 m and the breadth is 15 m then the number of stones used is

- (1) 450
- (2) 45

- (3) 9
- (4) None of these

19. Minni and Mitali had a total of 120 cards. Minni gave  $\frac{1}{5}$  of her cards to Mitali. Then, Mitali gave  $\frac{1}{4}$  of her cards to Minni. In the end, both of them had the same number of cards. How many cards did Minni have at first?

- (1) 85
- (2) 50
- (3) 45
- (4) None of these

20. An empty tank is filled with water from a tap at a constant rate. At 10:00 am, the tank is half full. At 11:00 am, the tank is  $\frac{2}{3}$  full. How many hours does it take for the tank to be filled to the brim with water?

- (1) 4 hrs
- (2) 6 hrs
- (3) 7 hrs
- (4) None of these

## INTERACTIVE SECTION

21. Preeti had 152 more pink beads than white beads. After she had used  $\frac{1}{2}$  of her white beads and  $\frac{5}{6}$  of her pink beads to make a bracelet. She had the same number of pink and white beads left. What was the total number of beads she had at first?

- (1) 304
- (2) 310
- (3) 280
- (4) None of these

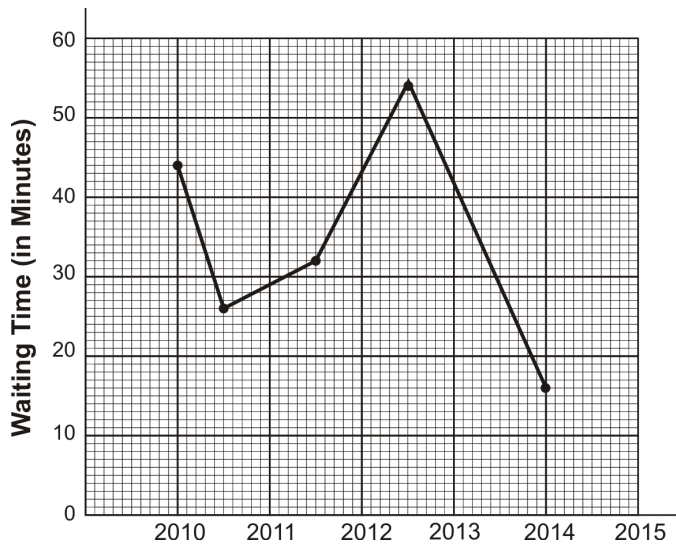
22. Avnish saves 40% as much as Deven. Sarthak saves 30% more than Deven. What is the ratio of Avnish's savings to Sarthak's saving to Deven's savings?



Avnish                      Deven                      Sarthak

- (1) 4:11:10
- (2) 3:13:10
- (3) 4:13:10
- (4) None of these

23. The line graph below show the average waiting time from 2010 to 2014 for the people of Delhi at the bus stop to catch the right bus. Find the average waiting time.



- (1) 16 mins  
(2) 28 mins  
(3) 38 mins  
(4) None of these
24. A bag contains blue, green and red marbles. The ratio of the number of blue marbles to the number of green marbles is 2:5. Half of the total number of the marbles is red. What is the ratio of the number

of blue marbles to the number of red marbles?

- (1) 3:5  
(2) 2:3  
(3) 4:7  
(4) None of these
25. Bottle A contained 5 times as much water as Bottle B. Bottle C contained  $\frac{1}{3}$  as much water as Bottle B. If Bottle A contained 72ml more water than Bottle B, how much water did all the 3 Bottles contain in all?



- (1) 96 ml  
(2) 110 ml  
(3) 114 ml  
(4) None of these



**END OF THE EXAM**