



# EDUHEAL FOUNDATION

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<b>ICO</b> INTERNATIONAL CYBER OLYMPIAD	<b>NISO</b> NATIONAL INTERACTIVE SCIENCE OLYMPIAD	<b>NIMO</b> NATIONAL INTERACTIVE MATHS OLYMPIAD	<b>NBTO</b> NATIONAL BIOTECHNOLOGY OLYMPIAD	<b>IEO</b> INTERNATIONAL ENGLISH OLYMPIAD	<b>IGO</b> INTERNATIONAL G.K. OLYMPIAD	<b>BIFO</b> BSE INTERNATIONAL FINANCE OLYMPIAD	<b>NIPO</b> NATIONAL IIT-PMT OLYMPIAD
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**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, G.K. and Biotech.

**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. Level 3 is in Maths, Science & Cyber only.

# See prospectus/website for details

- You are allowed additional 10 minutes to fill the required details in the **RESPONSE SHEET (OMR)**. **STUDENTS OF CLASS 1 & 2 HAVE TO UNDERLINE** THE CORRECT ANSWER IN THE QUESTION PAPER ITSELF. THEY ARE NOT REQUIRED TO USE THE RESPONSE SHEET (OMR). THEY HAVE TO FILL THEIR NAME, ROLL NUMBER, CLASS, SCHOOL NAME IN THE SPACE PROVIDED IN THE QUESTION PAPER.
- 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.
- 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 EXCEPT FOR CLASSES 1 AND 2.**

**EHF**  
**NATIONAL**  
**INTERACTIVE**  
**MATHS**  
**OLYMPIAD**

**N I M O**

**3**  
Class

**A1**  
Paper Code

**LEVEL - 1**

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THE HARVARD - IIT MATHEMATICS TOURNAMENT

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EDUCATION FOUNDATION

## MENTAL ABILITY

1. Break the code to name the game.

(1) 1022      1034

(2) 1034      1022

(3) 1032      1034

(4) none of these

**0 = A**  
**1 = B**  
**2 = L**  
**3 = S**  
**4 = E**

2. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?

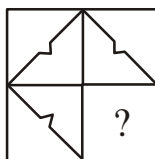
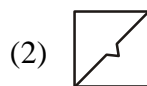
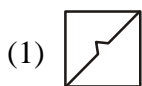
(1) Brother

(2) Nephew

(3) Uncle

(4) none of these

3. Complete the given figure:



(4) none of these

4. An Apple tree has 205 Apples. An Orange tree has 198 Oranges. How many fruits are there in all?

(1) 403

(2) 402

(3) 404

(4) none of these

5. A box has 625 pens, 246 are small pens. How many are big pens ?

(1) 397

(2) 379

(3) 378

(4) none of these

## MATHEMATICS

6.  $343 \times 2 =$

(1) 685

(2) 686

(3) 668

(4) none of these

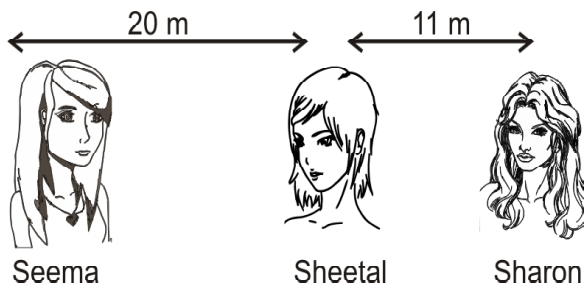
7.  $27 \div 3 =$

- (1) 8
- (2) 9
- (3) 10
- (4) none of these

8. Neeru bought a pencil for ₹ 5.10 and an eraser for ₹ 3.70. How much money does she spend in all?

- (1) ₹ 7.80
- (2) ₹ 8.80
- (3) ₹ 6.80
- (4) none of these

9. Look at the picture:



How far is Sharon from Seema ?

- (1) 31 metres
- (2) 13 metres
- (3) 19 metres
- (4) none of these

10. The length of the swimming pool is 50 metres. Abhishek has swam 32 metres. How much more does he have to swim ?



- (1) 18 metres
- (2) 17 metres
- (3) 81 metres
- (4) none of these

11. What is the total weight of the onions and tomatoes?



- (1) 84 kg
- (2) 86 kg
- (3) 55 kg
- (4) none of these

12. Abu's father weighs 72 kilograms. Abu's weight is 38 kg less than his father's. How much does Abu weigh?

- (1) 43 kg
- (2) 34 kg
- (3) 44 kg
- (4) none of these

13. A gas cylinder weighs 24 kg. How much will 10 gas cylinders weigh ?



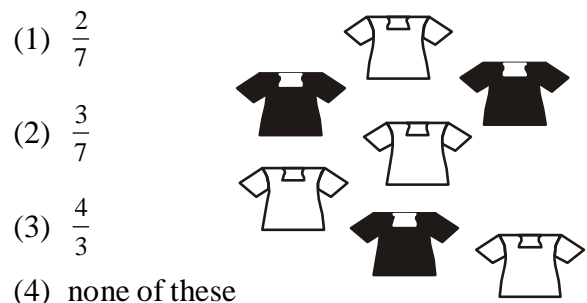
- (1) 200 kg
- (2) 260 kg
- (3) 240 kg
- (4) none of these

14. Can A has 2 litres of milk and Can B has 3 litres of milk. The milk from both the cans is poured into a larger can. How much milk is there in the larger can ?



- (1) 2 litre
- (2) 3 litre
- (3) 5 litre
- (4) none of these

15. What fraction of the group of T-shirts is Black?



- (1)  $\frac{2}{7}$
- (2)  $\frac{3}{7}$
- (3)  $\frac{4}{3}$
- (4) none of these

16. What time is the clock showing ?



- (1) 9 : 20 a.m
- (2) 4 : 45 p.m
- (3) 3 : 45 p.m
- (4) none of these

17. How are these figures related ?



- (1) congruent
- (2) neither similar nor congruent
- (3) similar but not congruent
- (4) none of these

18.  $749\text{m } 56\text{cm} \div 7$

- (1) 107m 8cm
- (2) 107m 7cm
- (3) 106m 4cm
- (4) none of these

19. Write the time in 24 hour clock pattern.



- (1) 20:55
- (2) 18:55
- (3) 21:55
- (4) none of these

20. How would you show this pattern using letters?



- (1) AB
- (2) ABB
- (3) AAB
- (4) none of these

**INTERACTIVE SECTION**

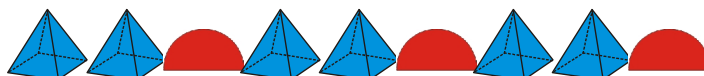
21.



How would you show this pattern ?

- (1) AB
- (2) ABC
- (3) ABB
- (4) none of these

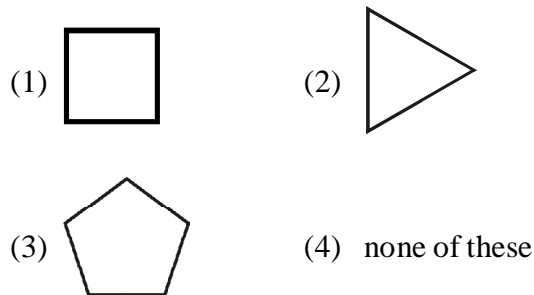
22.



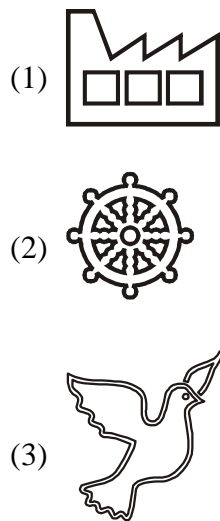
How would you show this pattern using letters?

- (1) AAB
- (2) ABC
- (3) ABB
- (4) none of these

23. Which shape has fewer vertices?

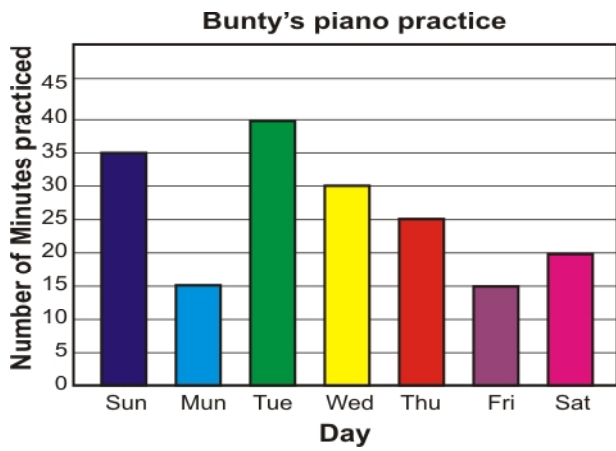


24. Which picture has symmetry?



- (4) none of these

25. The bar graph below shows the number of minutes Bunty practiced piano during each day of the week.



Exactly how many hours did Bunty practice piano during these 7 days?

- (1) 3.30 hours
- (2) 3 hours
- (3) 2.30 hours
- (4) none of these



**END OF THE EXAM**