

AOS

ASIAN OLYMPIAD SOCIETY

AMO

ASIAN MATHEMATICS OLYMPIAD 2020-2021

CLASS

4

INSTRUCTIONS AND INFORMATION FOR THE CANDIDATE

GENERAL

1. Do not open the booklet until told to do so by your teacher.
2. No calculators maths stencils, mobile phones or other calculating devices are permitted. Scribbling paper, graph paper, ruler and compasses are permitted, but are not essential.
3. Read the instructions on the answer sheet carefully. Ensure your name, school name and class are entered. It is your responsibility to correctly code your answer sheet.

THE ANSWER SHEET

1. Use an HB pencil or a Blue/Black ball point pen only to record your choice of answer in the Answer sheet.
2. Your answer sheet will be scanned. The optical scanner will attempt to read all markings even if they are in the wrong places, so please be careful not to write anything extra on the answer sheet.
3. If you want to change an answer or remove any marks, use a plastic eraser and be sure to remove all marks and smudges.
4. Fill your enrollment number clearly, improper enrollment number may lead to unavailability of result.
5. Please fill your Mobile Number clearly on the Answer Sheet, we will share your marks / result and other information related to AOS exams on your mobile number.
6. All questions are compulsory and there is no negative marking.
7. Return the ANSWER SHEET to the invigilator at the end of the exam.

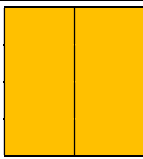
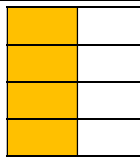
INTEGRITY OF THE COMPETITION

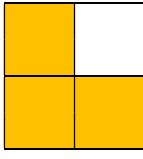
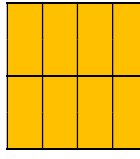
The AOS reserves the right to re-examine students before deciding whether to grant official status to their score.

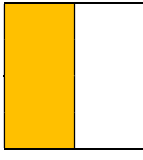
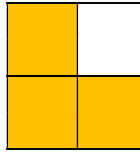
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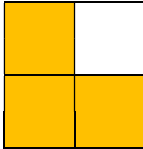
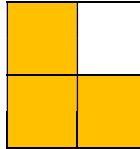
STUDENT NAME : _____ Contact No : _____

1. Which of these pictures shows $1\frac{3}{4}$ shaded squares?

a)  

b)  

c)  

d)  

2. In a small wildlife park, one-quarter of the animals are snakes and rest are lizards or birds. There are 70 snakes in the wildlife park.

How many lizards and birds are there?

- a) 70 b) 140 c) 210 d) 280

3. Radha is making a pattern of diamonds using small triangles



Shape – 1

Two triangles



Shape – 2

8 triangles



Shape – 3

18 triangles

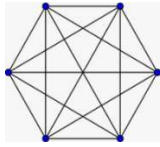
?

shape 4

How many small triangles will she need to make the 4th shape in her pattern?

- a) 32 b) 28 c) 25 d) 22

4. How many triangles are there in the given picture?



- a) 42 b) 57 c) 63 d) none of these
5. Danny used the digits 4, 7 and 8 to make 2-digit numbers. For example 47 and 77. How many of these 2-digit numbers are divisible by 3?
- a) 1 b) 2 c) 3 d) 4
6. $\star - 12 = \text{😊}$
 $\text{😊} + \text{😊} + \text{😊} = \star + \star$
 What is the value of \star ?
- a) 24 b) 18 c) 36 d) 30
7. If 5 is added to X, the result is 20. Find the value of X.
- a) 10 b) 15 c) 20 d) 25
8. Which one of the following is true for (9×5) ?
- a) $9 + 9 + 9 + \dots$ to 5 times.
 b) $5 + 5 + 5 + \dots$ to 9 times.
 c) $9 \times 9 \times 9 \times \dots$ to 5 times.
 d) Both a) and b)
9. A four sided closed figure is called a _____.
- a) Open figure b) cuboid c) quadrilateral d) none of these
10. Identify the composite number.
- a) 37 b) 57 c) 19 d) 97
11. How many multiples of 7 less than 71 are odd numbers?
- a) 5 b) 3 c) 2 d) 7

12. Find the reciprocal of $\left(\frac{2}{3} - \frac{2}{7}\right)$.
- a) $\frac{8}{21}$ b) $\frac{21}{8}$ c) $\frac{1}{21}$ d) $\frac{4}{10}$
13. I am a two-digit number. I am a common multiple of 5 and 3 and I have 4 factors. Find me.
- a) 51 b) 15 c) 12 d) 8
14. Match the following :
- A. $4 + 4$ i) $1 - 0$
 B. $4 - 4$ ii) 8×2
 C. 4×4 iii) $0 \div 4$
 D. $4 \div 4$ iv) $16 \div 2$
- a) A - ii, B - iii, C - iv, D - i
 b) A - i, B - iv, C - ii, D - iii
 c) A - iii, B - ii, C - i, D - iv
 d) A - iv, B - iii, C - ii, D - i
15. Which of the following statement is true
- a) Every square is a rectangle
 b) Every rectangle is a square.
 c) Every parallelogram is a rectangle.
 d) Every kite is a parallelogram

Answer key

1 - b	2 - c	3 - a	4 - d	5 - d	6 - c	7 - b	8 - d	9 - c	10 - b	11 - a	12 - b	13 - b	14 - d	15 - a
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