

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO



GRADE-3 & 4

ECOLIER - 1

TEST PAPER

MATH KANGAROO COMPETITION

Test Booklet Series

Set- A

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Roll No.:

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Student's Name:

Maximum Time: 90 Minutes

Maximum Marks: 96

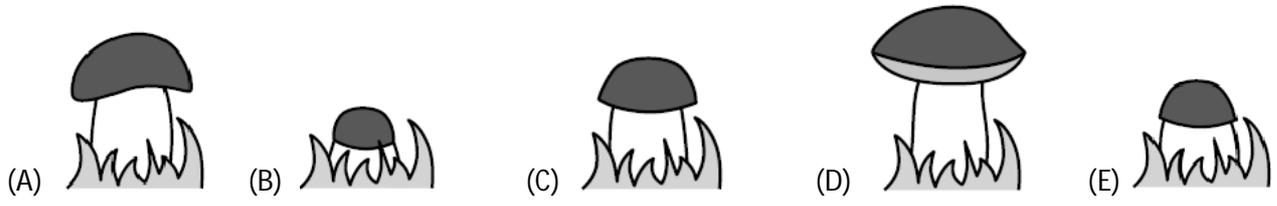
INSTRUCTIONS

- Please **DO NOT OPEN** the contest booklet until the proctor has given permission to start.
- There are 24 questions in this paper. **Easy:** 3 points for each correct answer. **Medium:** 4 points for each correct answer. **Hard:** 5 points for each correct answer. 1 point will be deducted for each incorrect answer, and no penalty for skipping a question.
- All questions are compulsory. There is only ONE correct answer to each question.
- No electronic devices capable of storing and displaying visual information are allowed during the exam.
- Use of **calculator** is strictly prohibited in the exam.
- Fill your **Name, Roll No., Grade and School Name** in the answer sheet.
- To mark your choice of answers by darkening the circles in the Answer Sheet, use an HB Pencil or a **Blue/Black Ball Point Pen** only.
- Shade your answer clearly as per the example is shown below:

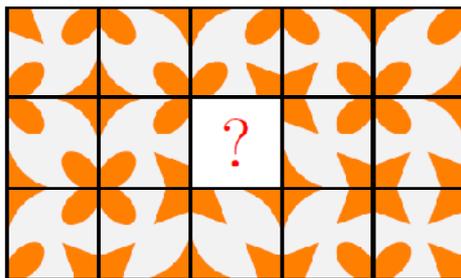
CORRECT	INCORRECT
<input type="radio"/> A <input checked="" type="radio"/> B <input type="radio"/> C <input type="radio"/> D	<input checked="" type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D

SECTION – A (3 POINT PROBLEMS)

1. A mushroom grows every day. Mary takes a picture of the mushroom each day from Monday to Friday. Which of these pictures was taken on Tuesday?

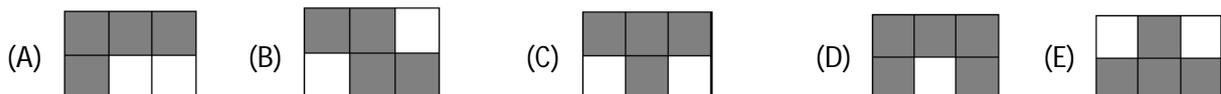


2. Which piece completes the pattern?

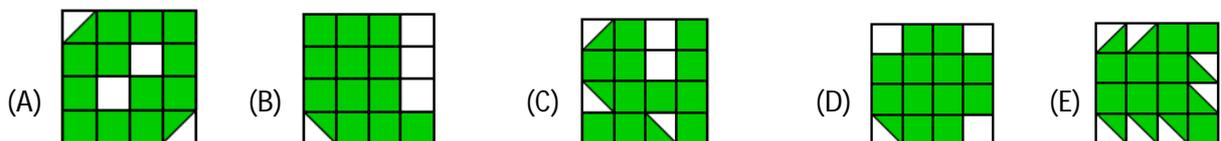


3. Tysger shades all the squares in the grid where the result is 20. Which shape does he get?

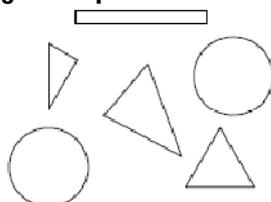
$16 + 4$	$19 + 1$	$28 - 8$
2×10	$16 - 4$	7×3



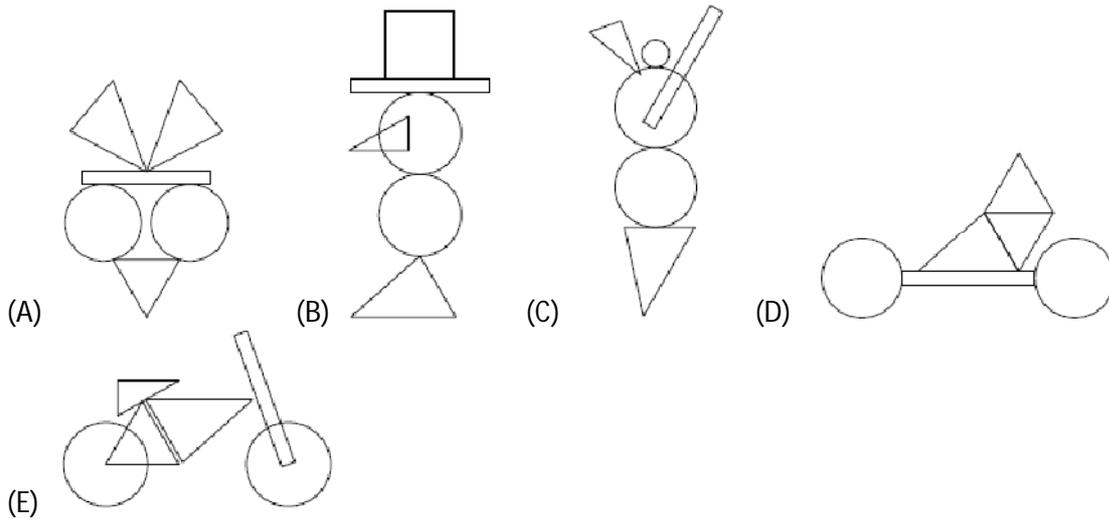
4. Which of the following figures has the largest part shaded?



5. You can make different figures by using these pieces:



Which one of the figures below can you make with these pieces?



6. Elli draws the big square with chalk on the pavement. She starts jumping from number 1. Each time she jumps, she always jumps to a number that is 3 more than the number she is standing on. What is the largest number Elli can jump onto?

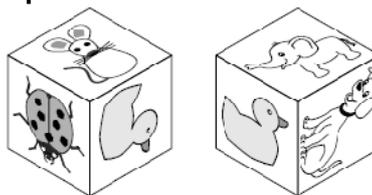
1	5	8	11
4	7	10	14
24	23	13	18
21	19	16	20

- (A) 11 (B) 14 (C) 18 (D) 19 (E) 24

7. Jorge glues these 6 stickers to the faces of a cube:

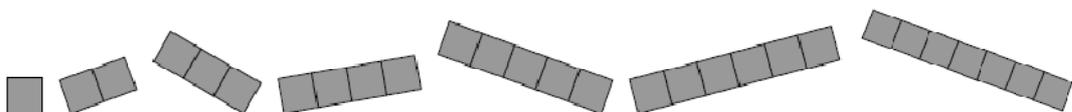


The pictures shows the cube in two positions. Which sticker is on the opposite face to the duck?



- (A) (B) (C) (D) (E)

8. Casper has the following 7 pieces:



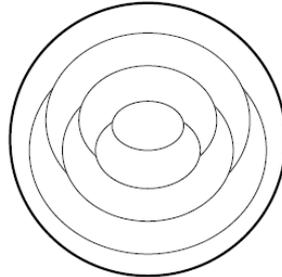
He uses some of these pieces to fully cover this grid with-out overlap. He uses as many different pieces as possible.

How many pieces does Casper use?

- (A) 3 (B) 4 (C) 5 (D) 6 (E) 7

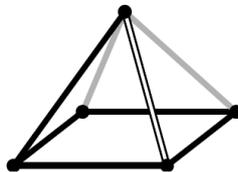
SECTION – B (4 POINT PROBLEMS)

9. Cindy colours each region on the pattern either red, blue or yellow. She colours regions that touch each other with different colours. She colours the outer ring (region) of the pattern red. How many regions does Cindy colour red?



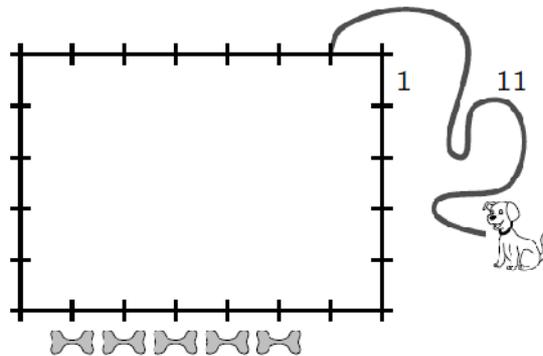
- (A) 1 (B) 2 (C) 3 (D) 4 (E) 5

10. Loes looks at the pyramid from above. What does Loes see?



- (A) (B) (C) (D) (E)

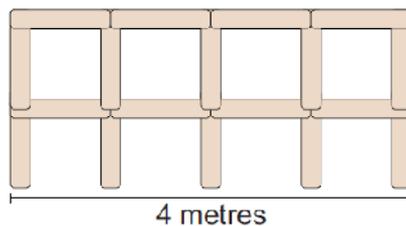
11. Dennis ties a dog 1 metre from a corner of a 7 metres by 5 metres hut as shown in the picture using an 11 metres long leash. Dennis places 5 treats as shown. How many of the treats could the dog reach?



- (A) 1 (B) 2 (C) 3 (D) 4 (E) 5

12. Lonneke builds a fence using 1 metre long poles.

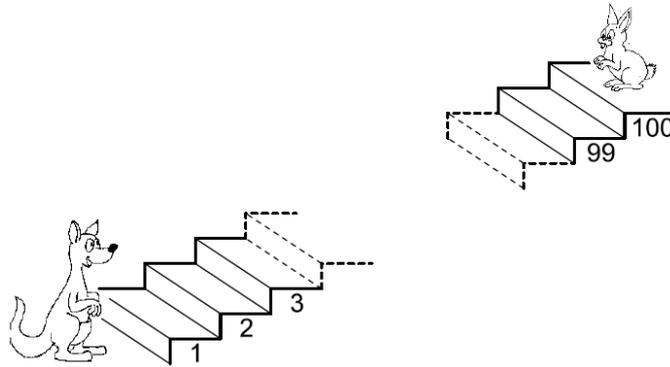
The picture shows a 4 metres long fence.



How many poles does Lonneke need to build a 10 metres long fence?

- (A) 22 (B) 30 (C) 33 (D) 40 (E) 42

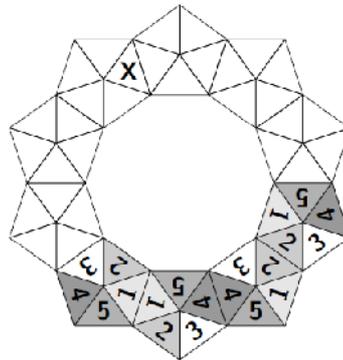
13. Every time the kangaroo goes up 7 steps, the rabbit goes down 3 steps.



On which step do they meet?

- (A) 53 (B) 60 (C) 63 (D) 70 (E) 73
14. The sum of three numbers is 50. Karin subtracts a secret number from each of these three numbers. She gets 24, 13 and 7 as the results. Which one of the following is one of the original three numbers?
- (A) 9 (B) 11 (C) 13 (D) 17 (E) 23

15. Amelie wants to build a crown using 10 copies of this token . When two tokens share a side, the corresponding numbers match. Four tokens have already been placed. Which number goes in the triangle marked with an X?



- (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
16. Farid has two types of sticks: short ones, measuring 1 cm and long ones, measuring 3 cm.

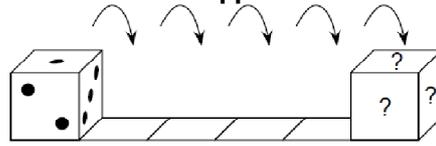


With which of the combinations below can he make a square, without breaking or overlapping the sticks?

- (A) 5 short and 2 long (B) 3 short and 3 long
 (C) 6 short (D) 4 short and 2 long
 (E) 6 long

SECTION – C (5 POINT PROBLEMS)

17. A standard dice has 7 as the sum of the dots on opposite faces.



The dice is put on the first square as shown and then rolls towards the right. When the dice gets to the last square, what is the total number of dots on the three faces marked with the question marks?

- (A) 6 (B) 7 (C) 9 (D) 11 (E) 12

18. 6 people each order one scoop of ice cream. They order 3 scoops of vanilla, 2 scoops of chocolate and 1 scoop of lemon. They top the ice creams with 3 cherries, 2 wafers and 1 chocolate chip. They use one topping on each scoop, such that no two ice creams are alike. Which of the following combinations is not possible?



- (A) chocolate with a cherry
 (B) vanilla with cherry
 (C) lemon with a wafer
 (D) chocolate with a wafer
 (E) vanilla with a chocolate chip

19. The Queen tries to find out the three names of Rumpelstiltskin's wife.

She asks her:

"Are you called Adele Lilly Cleo?"

"Are you called Adele Laura Cora?"

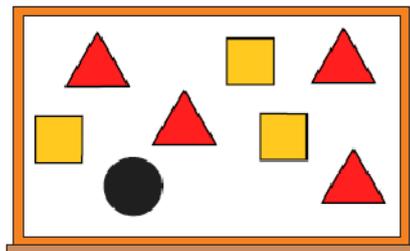
"Are you called Abbey Laura Cleo?"

Each time exactly one name and its position was right.

What is the name of Rumpelstiltskin's wife?

- (A) Abbey Lilly Cora
 (B) Abbey Laura Cora
 (C) Adele Laura Cleo
 (D) Adele Lilly Cora
 (E) Abbey Laura Cleo

20. The teacher writes the numbers from 1 to 8 on the board. The teacher then covers the numbers with triangles, squares and a circle. If you add the four numbers covered by the triangles, the sum is 10. If you add the three numbers covered by the squares, the sum is 20. Which number is covered by the circle?

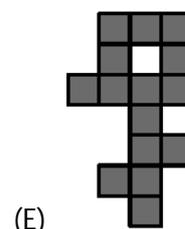
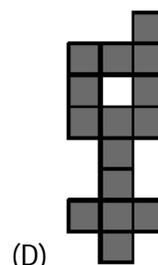
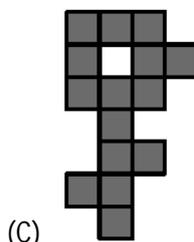
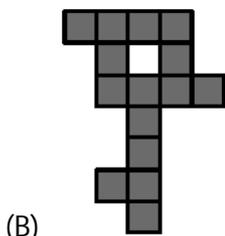
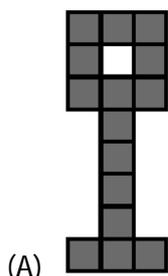


- (A) 3 (B) 4 (C) 5 (D) 6 (E) 7

21. Jane has some pictures of parrots . She wants to colour only the head, tail and wings of each

parrot either red, blue or green so that all three colours are used on each picture. She colours one parrot's head red, its wings green and its tail blue. How many more parrots can she colour so that all the parrots are coloured differently?

- (A) 1 (B) 2 (C) 4 (D) 5 (E) 9
22. Several teams came to the summer Kangaroo camp. Each team has 5 or 6 members. There are 43 people in total. How many teams are at this camp?
- (A) 4 (B) 6 (C) 7 (D) 8 (E) 9
23. Which key would it be impossible to cut into three different figures of five shaded squares?



24. Ann replaces letters in the calculation $KAN - ROO + GA$ with numbers from 1 to 9 and then calculates the result. The same letters are replaced by the same numbers and different letters by different numbers. What is the largest possible result she could get?
- (A) 925 (B) 933 (C) 939 (D) 942 (E) 948

ANSWER KEY

1	E	7	E	13	D	19	A
2	E	8	C	14	A	20	D
3	A	9	C	15	D	21	D
4	A	10	C	16	B	22	D
5	E	11	D	17	B	23	B
6	D	12	E	18	C	24	D