



Singapore Math Kangaroo Contest 2016

Primary 2 Contest Paper

Name: _____

School: _____

INSTRUCTIONS:

1. Please **DO NOT OPEN** the contest booklet until the Proctor has given permission to start.
2. **TIME : 1 hour and 30 minutes**
3. There are 24 questions in this paper. Each question scores 3 points in Section A, 4 points in Section B and 5 points in Section C. No points are deducted for Unanswered question. 1 point is deducted for Wrong answer.
4. Shade your answers neatly in the answer entry sheet.
5. PROCTORING : No one may help any student in any way during the contest.
6. **No calculators** are allowed.
7. All students must fill and shade in your **Name, Index number, Level and School** in the Answer sheet
8. MINIMUM TIME: Students must stay in the exam hall for at least 1 hour and 15 minutes.
9. Students must show detailed working and transfer answers to the answer entry sheet.
10. No spare papers can be used in writing this contest. Enough space is provided for your working of each question.
11. You must return this contest paper to the proctor.

Rough Working

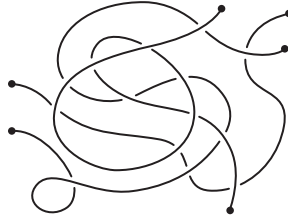
Section A (Correct – 3 points | Unanswered – 0 points | Wrong – deduct 1 point)

1. Which letter on the board is not in the word "KOALA"?



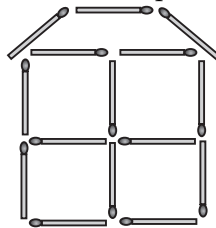
- (A) R (B) L (C) K (D) N (E) O

2. How many ropes are there in the picture?



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

3. Michael built a house with matches as in the picture. How many matches did he use?

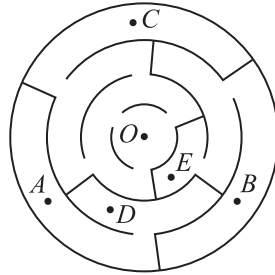


- (A) 19 (B) 18 (C) 17 (D) 15 (E) 13

4. In a cave, there were two horses, one bear and three turtles. Later, five horses, three bears and four turtles joined them. How many animals are in the cave now?

- (A) 6 (B) 9 (C) 12 (D) 15 (E) 18

5. Which point can we reach starting from the point O , if we cannot pass through walls?



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

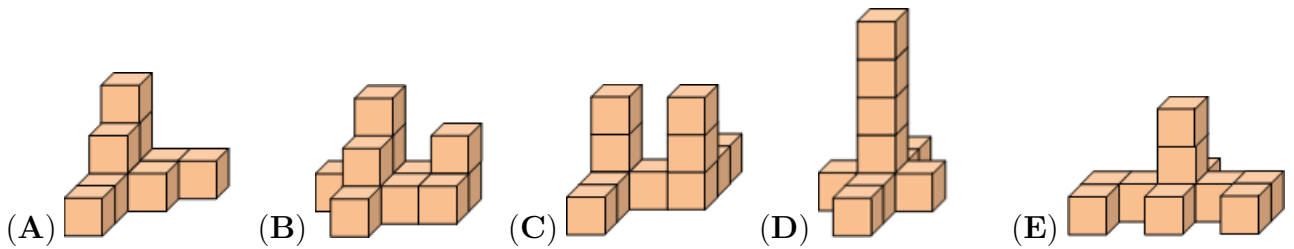
6. Ten friends came to John's birthday party, six of them were girls. How many boys were there in the party?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8

7. Matt had to deliver flyers to all houses numbered from 25 to 57. How many houses got the flyers?

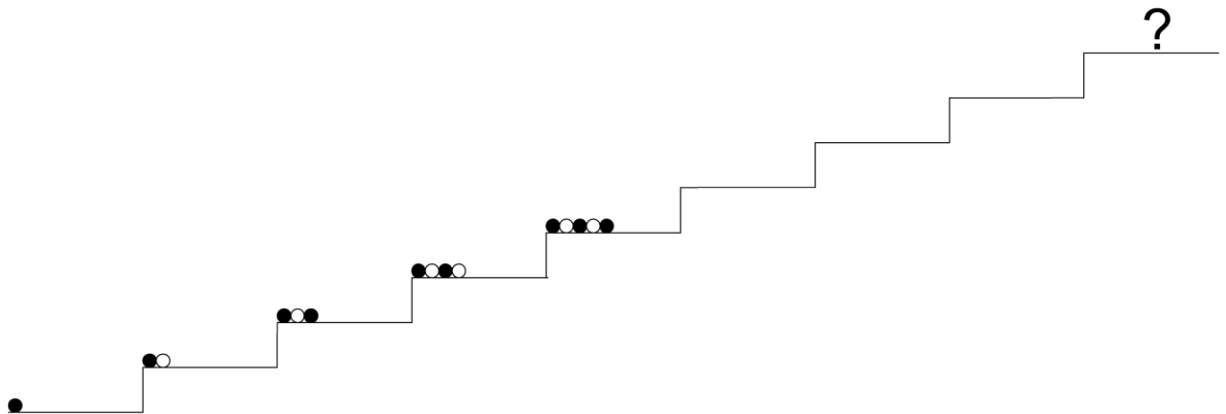
- (A) 31 (B) 32 (C) 33 (D) 34 (E) 35

8. Which shape can we make with 10 cubes?



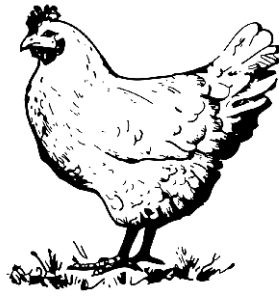
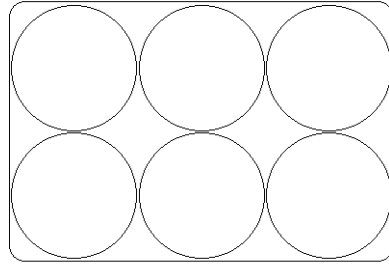
Section B (Correct – 4 points | Unanswered – 0 points | Wrong – deduct 1 point)

9. Sophie arranges some balls on a staircase in a certain way as shown in the picture. How will the balls appear on the level with the question mark?



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

10. Agatha, the hen, lays white and brown eggs. Lisa puts six eggs in the box below. Two brown eggs cannot touch each other. At most, how many brown eggs can Lisa put in the box?



(A) 1

(B) 2

(C) 3

(D) 4

(E) 5

11. Kanga is 1 year and 3 months old now. In how many months will Kanga be 2 years old?

(A) 3

(B) 5

(C) 7

(D) 8

(E) 9

12. Granny went out to the yard and called all the hens and her cat. All 20 legs ran to her. How many hens does granny have?

(A) 11

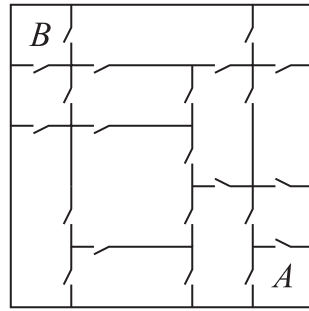
(B) 9

(C) 8

(D) 6

(E) 4

13. In Baby Roo’s house, each room is connected to any neighboring room by a door as shown in the picture. Baby Roo wants to get from the room *A* to the room *B*. What is the least number of doors that he will need to go through?

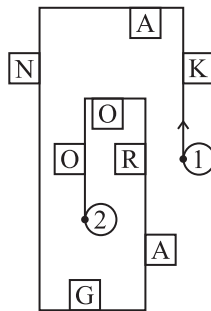


- (A) 3 (B) 4 (C) 5 (D) 6 (E) 7

14. There are twelve rooms in a building. Each room has two windows and one light. Last evening, eighteen windows were lighted. In how many rooms was the light off?

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

15. Mary is walking along the road and she reads only the letters located on her right side. Moving from point 1 to point 2, what is the word she will get?



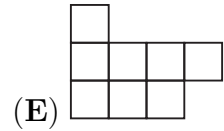
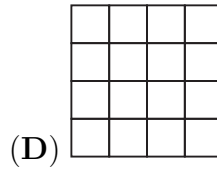
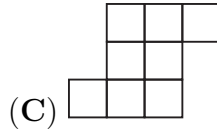
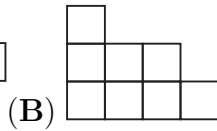
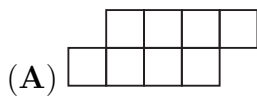
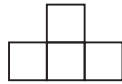
- (A) KNAO (B) KNGO (C) KNR (D) AGRO (E) KAO

16. The sum of John's and Paul's ages is equal to 12. What will be the sum of their ages in 4 years?

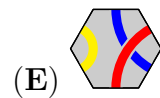
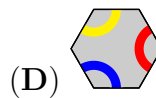
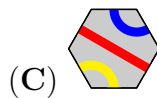
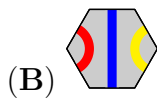
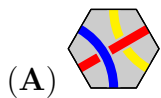
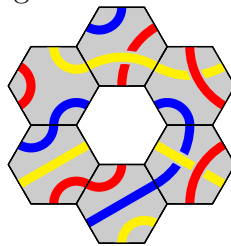
- (A) 16 (B) 17 (C) 18 (D) 19 (E) 20

Section C (Correct – 5 points | Unanswered – 0 points | Wrong – deduct 1 point)

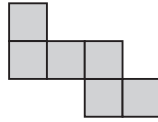
17. Which of the following pictures cannot be made by using figures like the one given below?



18. Which tile fits in the middle of the figure to match the pattern?



19. Amy used six equal small squares to build the figure. What is the least number of equal small squares she should add to the picture in order to obtain a larger square?



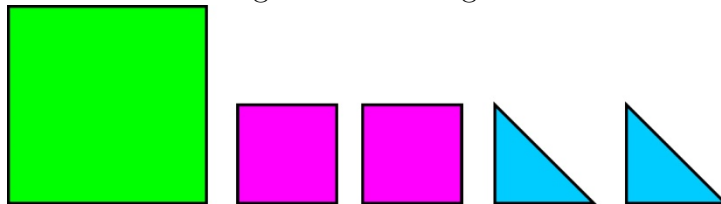
- (A) 6 (B) 8 (C) 9 (D) 10 (E) 12

20. Five sparrows sat on a wire as shown in the picture. Some of them looked to their left, others looked to their right. Each sparrow chirped only once to each bird it saw on its side. For example, third sparrow from the left chirped two times. In total, how many times did they chirp?



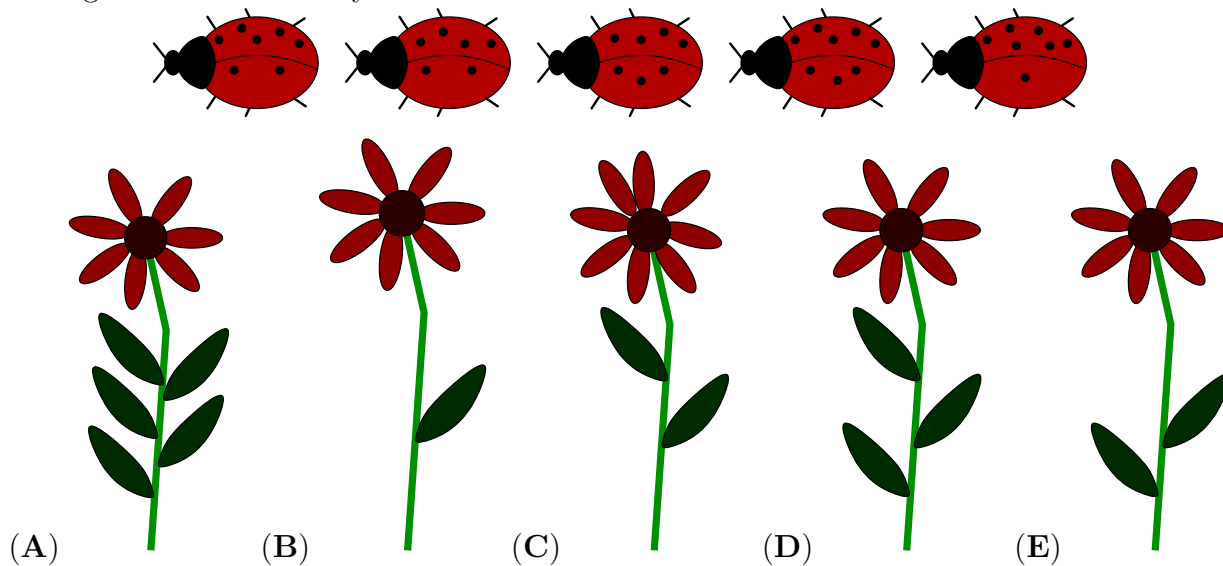
- (A) 6 (B) 8 (C) 9 (D) 10 (E) 12

21. Which pattern can we make using all five cards given below?

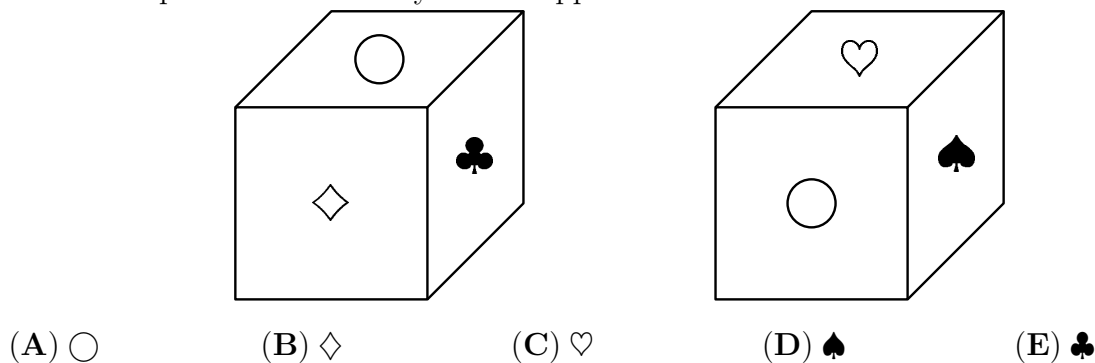


- (A) (B) (C) (D) (E)

22. There are 5 ladybirds in the picture. Each one sits on its flower. Their places are defined as follows: the difference of the number of dots on their wings is the number of the leaves and the sum of the number of dots on their wings is the number of the petals. Which of the following flowers has no ladybird?



23. On each of six faces of a cube there is one of the following six symbols: ♣, ◇, ♥, ♠, □ and ○. There is a different symbol on each face. In the picture we can see this cube shown in two different positions. Which symbol is opposite the □?



24. The numbers 1, 5, 8, 9, 10, 12 and 15 are distributed into groups with one or more numbers. The sum of the numbers in each group is the same. What is the largest number of groups?

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

END OF PAPER

Rough Working