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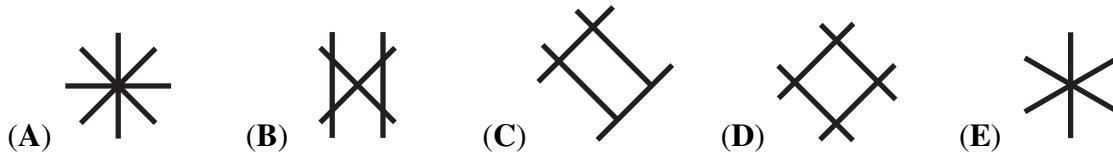
CMKC 2021

Grade 1-2

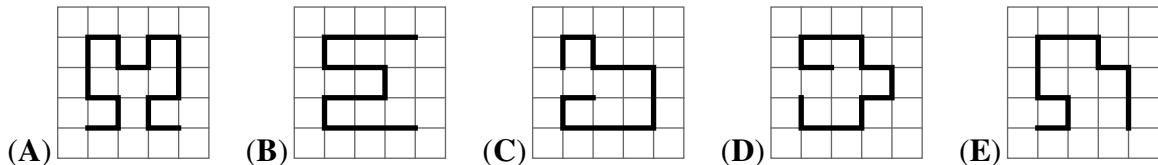
# CANADIAN MATH KANGAROO CONTEST PROBLEMS

**PART A: EACH CORRECT ANSWER IS WORTH 3 POINTS**

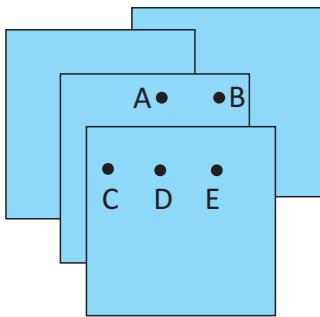
1. A kangaroo laid out 3 sticks like this —— to make a shape. It is not allowed to bend or to break the sticks. Which shape could the kangaroo make?



- 2.** Which of these paths is the longest?



3. Four identical pieces of paper are placed as shown. Michael wants to make a hole that goes through all four pieces of paper.



Where should Michael make the hole?

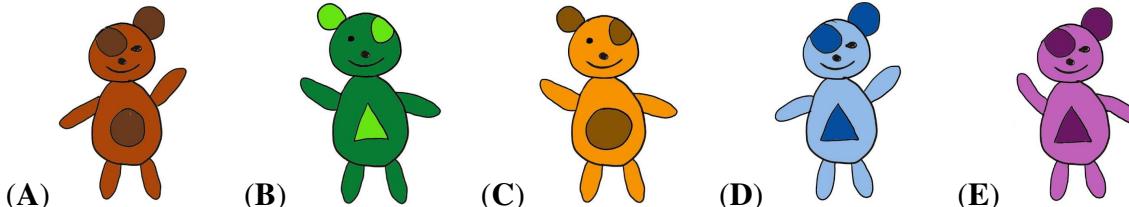
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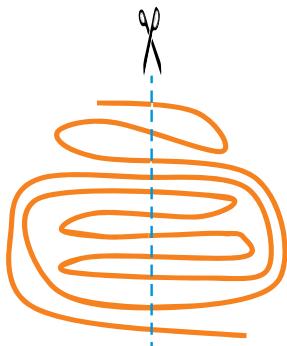
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4. Ann's teddy bear has the right eye covered with the ear. Its left hand is raised up and it has a triangle on its belly. Which of the following teddy bears belongs to Ann?



5. Edmund cut a ribbon as shown in the picture.



How many pieces of ribbon were there after the cut?



6. Ella puts on this t-shirt and stands in front of a mirror.



Which of these images does she see in the mirror?

- (A) 2021      (B) 2120      (C) 2201      (D) 1202      (E) 0201

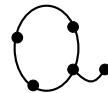
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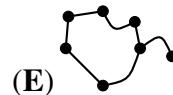
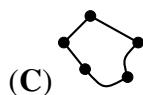
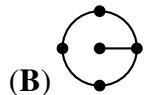
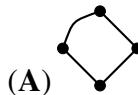
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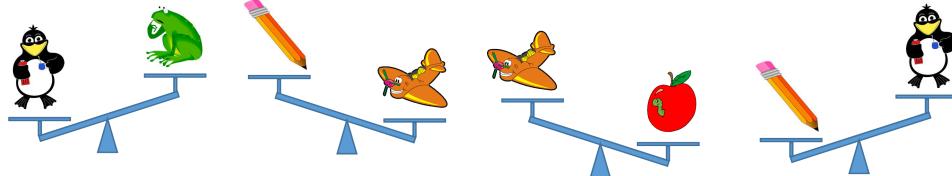
## PART B: EACH CORRECT ANSWER IS WORTH 4 POINTS



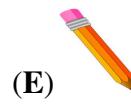
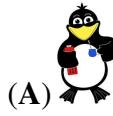
7. In the picture you can see the necklace of Sophie.  
Which necklace is the necklace of Sophie?



8. A bunch of toys are placed on weigh scales. A heavier toy is lower than a lighter toy.



Which of the 5 toys is the heaviest?



9. Julie and Angela played a new game called "kangaball." They score goals that are worth 2 points. Julie scored 5 goals and Angela scored 9 goals.  
How many more points than Julie did Angela have?

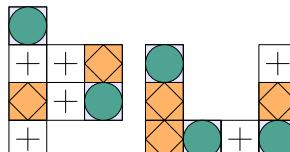
(A) 4

(B) 6

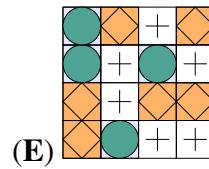
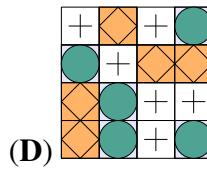
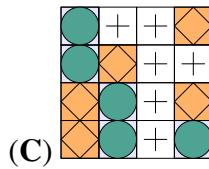
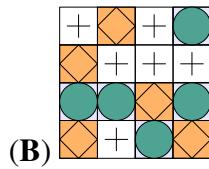
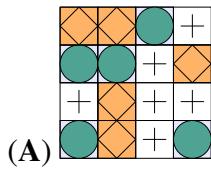
(C) 8

(D) 10

(E) 12



10. Which figure can be made from these two pieces?



11. Kangie eats only apples on Monday, Wednesday and Friday. On Tuesday and Thursday he eats only mangoes. He eats nothing on Saturday and Sunday. He eats either 2 apples or 3 mangoes a day. How many fruits does Kangie eat in two weeks?

(A) 12

(B) 16

(C) 18

(D) 20

(E) 24

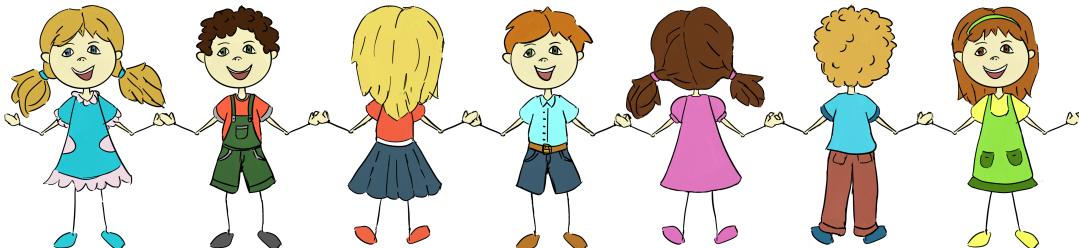
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- 12.** These children are holding hands. Some are facing forward and others are facing backward.



How many children are holding another child's hand with their right hand?



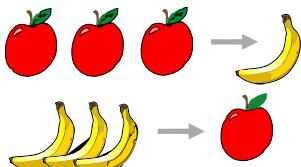
**PART C: EACH CORRECT ANSWER IS WORTH 5 POINTS**

13. A kangaroo had two branches for lunch. Each branch had 10 leaves. The kangaroo first ate some leaves from one branch. Then, from the second branch, it ate as many leaves as were left on the first branch. How many leaves in total were left on the two branches?



14. Every time the witch has 3 apples she turns them into 1 banana.

Every time she has 3 bananas she turns them into 1 apple.



What will she finish with if she starts with 4 apples and 5 bananas?

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

- 15** The cards shown are placed into two boxes.

The sums of the numbers in each box are the same.

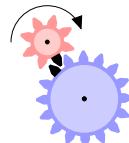
Which number must be in the box that contains the number 4?

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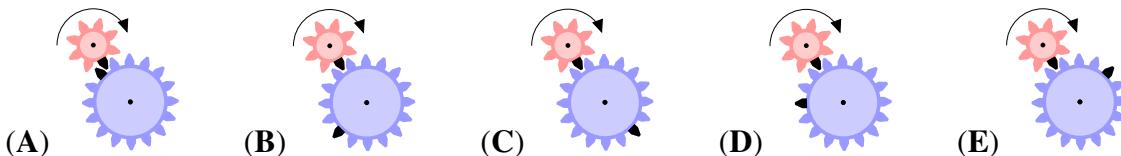
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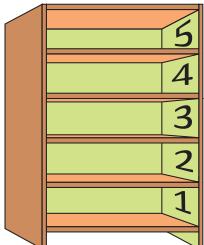


16. The picture shows two cogs, each with a black tooth.

Where will the black teeth be after the small cog has made one full turn?



17. Stan has five toys: a ball, a set of blocks, a chess game, a puzzle and a car. He puts each toy on a different shelf of the bookcase. The ball is higher than the blocks and lower than the car. The chess game is directly above the ball.



On which shelf can the puzzle *not* be placed?

(A) 1

(B) 2

(C) 3

(D) 4

(E) 5

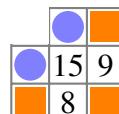
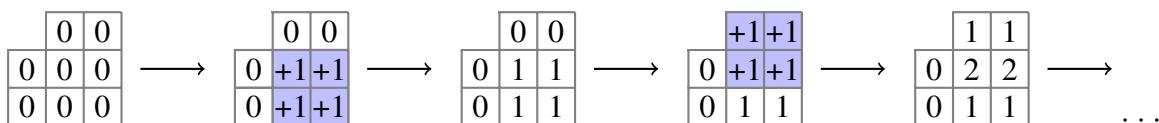


18. Carl has a shape made up of four squares.

He places the shape on a grid figure so that it completely covers four of the grid cells.

Every time Carl does this, he adds 1 to the numbers in the four covered cells.

Starting with 0 in every cell of the grid, Carl places his shape several times as shown.



In the end, Carl hid some numbers with stickers:

What is the sum of the numbers behind the three squares?

(A) 32

(B) 24

(C) 17

(D) 15

(E) 13

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International Contest-Game  
Math Kangaroo Canada, 2021

## Answer Key **Grade 1-2**

<b>1</b>	A B C D <b>E</b>	<b>7</b>	A <b>B</b> C D E	<b>13</b>	A B C <b>D</b> E
<b>2</b>	<b>A</b> B C D E	<b>8</b>	A B <b>C</b> D E	<b>14</b>	<b>A</b> B C D E
<b>3</b>	A B C <b>D</b> E	<b>9</b>	A B <b>C</b> D E	<b>15</b>	A B <b>C</b> D E
<b>4</b>	A B C <b>D</b> E	<b>10</b>	<b>A</b> B C D E	<b>16</b>	A B <b>C</b> D E
<b>5</b>	A B C <b>D</b> E	<b>11</b>	A B C D <b>E</b>	<b>17</b>	A B <b>C</b> D E
<b>6</b>	<b>A</b> B C D E	<b>12</b>	A B C D <b>E</b>	<b>18</b>	A B C <b>D</b> E