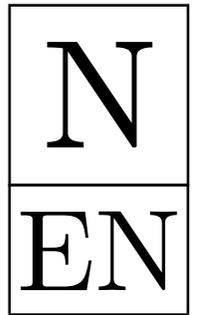


# KANGAROO 2020

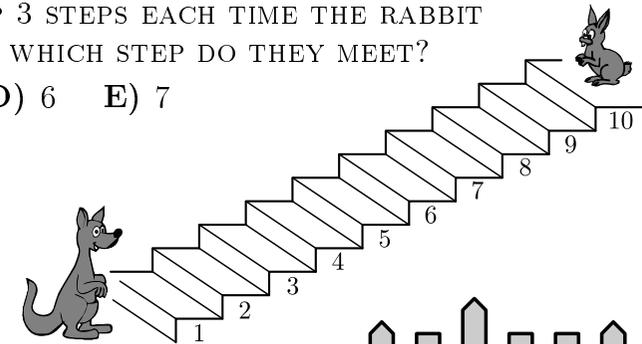


Time allowed: 50 minutes  
Calculators are not permitted

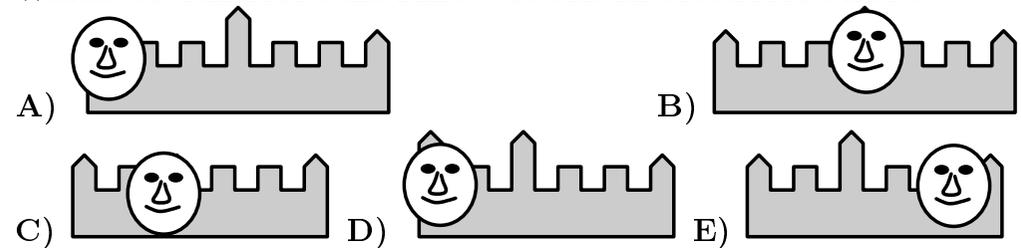
NIPPER  
1-2 GRADES

## QUESTIONS FOR 3 POINTS

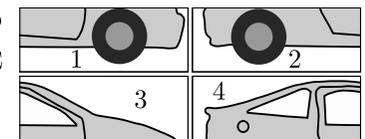
1. THE KANGAROO GOES UP 3 STEPS EACH TIME THE RABBIT GOES DOWN 2 STEPS. ON WHICH STEP DO THEY MEET?  
A) 3 B) 4 C) 5 D) 6 E) 7



2. MORDKA TOOK A SELFIE IN FRONT OF THIS CASTLE WHICH OF THE PICTURES BELOW COULD BE MORDKA'S PHOTO?



3. NELLY ARRANGED THE FOUR PIECES TO MAKE A PICTURE OF A CAR. HOW ARE THE PIECES ARRANGED?



- A) 

4	3
2	1

 B) 

3	4
2	1

 C) 

2	1
4	3

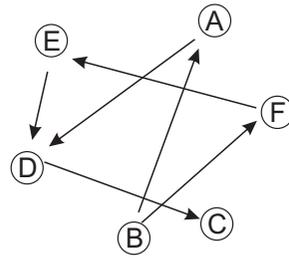
 D) 

4	3
1	2

 E) 

3	4
1	2

14. AN ARROW POINTING FROM ONE PERSON TO ANOTHER MEANS THAT THE FIRST PERSON IS TALLER THAN THE SECOND. FOR EXAMPLE, PERSON B IS TALLER THAN PERSON A. WHO IS THE SHORTEST?



- A) PERSON A B) PERSON B  
C) PERSON C D) PERSON D E) PERSON E

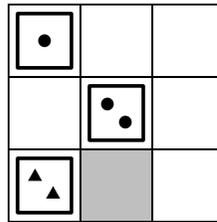
15. THERE ARE SOME APPLES AND 8 PEARS IN A BASKET, EACH OF THEM GREEN OR YELLOW. THERE ARE THREE MORE APPLES THAN THE TOTAL NUMBER OF GREEN FRUIT. THERE ARE 6 YELLOW PEARS. HOW MANY YELLOW APPLES ARE THERE IN THE BASKET?

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

16. GRANDMOTHER HAS JUST BAKED 12 COOKIES. SHE WANTS TO GIVE ALL OF THE COOKIES TO HER 5 GRANDCHILDREN BUT ALSO WANTS TO GIVE EACH OF THE GRANDCHILDREN THE SAME NUMBER OF COOKIES. HOW MANY MORE COOKIES SHOULD SHE BAKE?

- A) 0 B) 1 C) 2 D) 3 E) 4

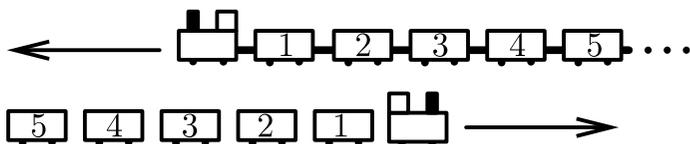
17. TOM HAS 9 CARDS, AS SHOWN:



HE PUTS THE CARDS ON THE BOARD SO THAT EACH HORIZONTAL LINE (ROW) AND EACH VERTICAL LINE (COLUMN) CONTAINS THREE CARDS WITH THREE DIFFERENT SHAPES AND THREE DIFFERENT NUMBER OF SHAPES. HE HAS ALREADY PUT THREE CARDS, AS SHOWN. WHICH CARD DOES HE PUT ON THE GREY SQUARE?

- A) B) C) D) E)

18. TWO IDENTICAL TRAINS, EACH WITH 31 CARS, ARE TRAVELING IN OPPOSITE DIRECTIONS. WHEN CAR NO. 19 OF ONE TRAIN IS OPPOSITE CAR NO. 19 OF THE OTHER, WHICH CAR IS OPPOSITE CAR NO. 12?



- A) 7 B) 12 C) 21 D) 26 E) 31

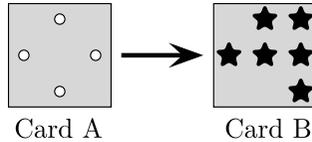
4. A MAGICIAN IS PULLING TOYS OUT OF HIS TOP HAT. HE ALWAYS PULLS OUT THE TOYS IN THE SAME ORDER AS SHOWN IN THE PICTURE:



THE PATTERN IN THE PICTURE REPEATS EVERY FIVE TOYS. WHICH TWO TOYS DOES HE PULL OUT NEXT?

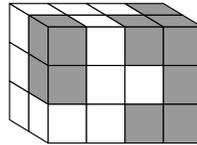
- A) B) C) D) E)

5. JOSÉ HAS TWO CARDS OF THE SAME SIZE. CARD A HAS FOUR HOLES CUT IN IT. JOSÉ PLACES CARD A DIRECTLY ON TOP OF CARD B. WHAT CAN JOSÉ SEE?



- A) B) C) D) E)

6. MARY MADE A SHAPE USING SOME WHITE CUBES AND 14 GREY CUBES. HOW MANY OF THESE GREY CUBES ARE INVISIBLE IN THE PICTURE?



- A) 1 B) 3 C) 5 D) 6 E) 8

#### QUESTIONS FOR 4 POINTS

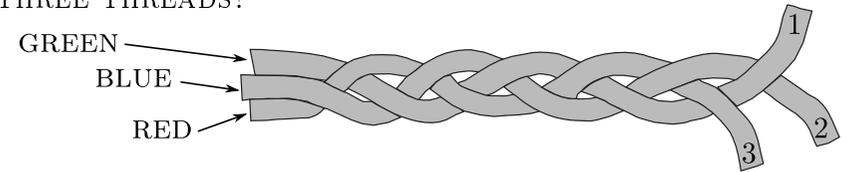
7. ANNA DRAWS A PICTURE OF SOME SHAPES. HER PICTURE CONTAINS 3 BLACK TRIANGLES AND FEWER THAN 4 SQUARES. WHICH COULD BE ANNA'S PICTURE?

- A) B) C) D) E)

8. IN WHICH OF THE FOLLOWING PICTURES IS MORE OF THE SHAPE SHADED THAN ANY OF THE OTHERS?

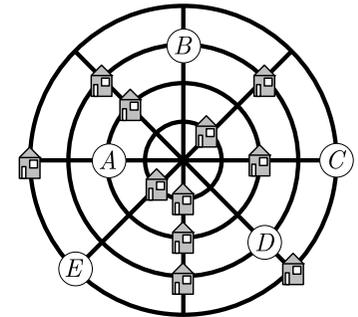
- A) B) C) D) E)

9. THE BRAID IN THE FIGURE IS COMPOSED OF THREE THREADS. ONE THREAD IS GREEN, ONE IS BLUE AND ONE IS RED. WHAT COLOURS ARE THE THREE THREADS?



- A) 1 IS BLUE, 2 IS GREEN, 3 IS RED B) 1 IS GREEN, 2 IS RED, 3 IS BLUE  
C) 1 IS RED, 2 IS BLUE, 3 IS GREEN D) 1 IS GREEN, 2 IS BLUE, 3 IS RED  
E) 1 IS BLUE, 2 IS RED, 3 IS GREEN

10. A VILLAGE OF 12 HOUSES HAS FOUR STRAIGHT ROADS AND FOUR CIRCULAR ROADS. THE MAP SHOWS 11 OF THE HOUSES. ON EACH STRAIGHT ROAD THERE ARE 3 HOUSES. ON EACH CIRCULAR ROAD THERE ARE ALSO 3 HOUSES. WHERE ON THE MAP SHOULD THE 12TH HOUSE BE PUT?

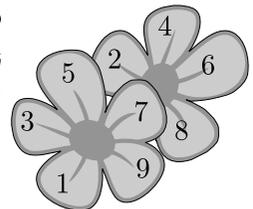


- A) AT A B) AT B C) AT C  
D) AT D E) AT E

11. FIVE SHAPES ARE MADE BY GLUEING CUBES TOGETHER FACE TO FACE. WHICH SHAPE USES THE MOST CUBES?

- A) B) C) D) E)

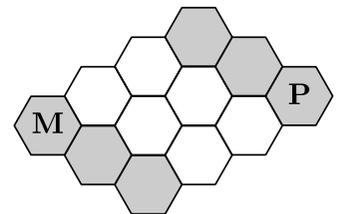
12. A NUMBER IS WRITTEN ON EACH PETAL OF TWO FLOWERS. ONE PETAL IS HIDDEN. THE SUMS OF THE NUMBERS ON THE TWO FLOWERS ARE EQUAL. WHAT NUMBER IS WRITTEN ON THE HIDDEN PETAL?



- A) 0 B) 3 C) 5 D) 7 E) 1

#### QUESTIONS FOR 5 POINTS

13. MAYA THE BEE CAN WALK ONLY ON GREY CELLS. IN HOW MANY WAYS COULD YOU COLOUR EXACTLY TWO WHITE CELLS GREY SO THAT MARK CAN WALK FROM M TO P?



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