

# Markhor Junior Contest 2025

Learner Level (Class III & IV)

Mathematics

Time Allowed 60 Minutes

**There are 19 problems, graded as follows:**

**Questions 1-5 are 1 point each,**

**Questions 6-10 are 2 points each,**

**Questions 11-15 are 3 points each,**

**Questions 16-19 are 5 points each.**

1. A 30-minute art class began at 9:15 AM. Right in the middle of the class, the paint bottles accidentally spilled on the floor. At what time did that happen?

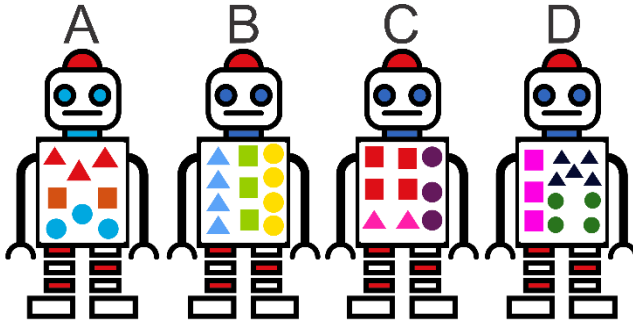
- a) 9:15 am
- b) 9:30am
- c) 9:30pm
- d) 9:45am
- e) None of the above



2. At a cafe, a sandwich costs \$5.75, a smoothie costs \$3.60, and a muffin costs \$2.40. There's a combo deal that includes all three items for \$10.25. How much money does a customer save by choosing the combo instead of buying each item separately?
- a) \$2.15
  - b) \$1.50
  - c) \$1.15
  - d) \$10.25
  - e) None of the above

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3. **An Even number that is both a perfect square and cube?**
- a) 16
  - b) 64
  - c) 81
  - d) 100
  - e) None of the above
4. **There are 4 robots. Taha forgot which one is his, but he remembers some clues: His robot has 3 or more triangles. It has an odd number of squares. The total number of shapes on it is divisible by 2, 3, 4, and 6. Can you help Taha find his robot?**

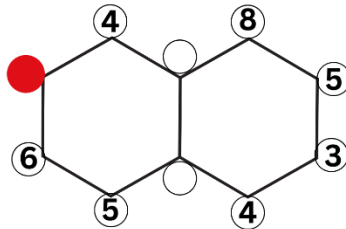


- e) None of the above
5. **Mina lights candles on her birthday every year. On her first birthday, she lit one candle. On her second birthday, she lit two candles. On her third birthday, she lit three candles, and she continued the same way every year.**

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**Now she has a total of 66 candles in her collection. How old is Mina now?**

- a) 10 years
  - b) 11 years
  - c) 12 years
  - d) 9 years
  - e) None of the above
- 6. The sum of all the circles at the corners of the hexagon is 30. What is the value of the red circle?**



- a) 4
  - b) 5
  - c) 6
  - d) 7
  - e) None of the above
- 7. Four baskets have 1, 4, 6, and 9 apples respectively. How many apples must be moved so all baskets have the same number?**
- a) 3
  - b) 4
  - c) 5
  - d) 6
  - e) None of the above
- 
- 8. A certain four-digit number has a special property. The number itself is divisible by 9. If you remove its last digit, the remaining three-digit number is divisible by 7. If you remove its first digit instead, the remaining**

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**three-digit number is divisible by 4. What is this number?**

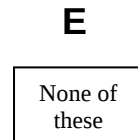
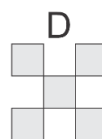
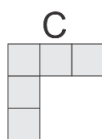
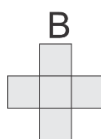
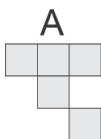
- a) 2520
  - b) 3150
  - c) 4410
  - d) 6300
  - e) None of the above
- 9. Aanya divided some chocolates among herself and her 7 friends so that everyone received one and a half chocolates. How many chocolates were distributed in total?**

- a) 8
- b) 10
- c) 12
- d) 15
- e) None of the above



- 10. Ali wants to place one of the given pieces of paper on the grid. He has several pieces, but he cannot rotate or flip them. Which piece should Ali choose to cover the numbers with the highest total sum?**

|   |   |   |
|---|---|---|
| 5 | 4 | 1 |
| 7 | 9 | 8 |
| 6 | 3 | 2 |



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- 11. Sara wrote a number and then covered each digit with a shape. Different digits are covered with different shapes, and the same digits are covered with the same shape. Which number could be hidden under the shapes?**



- a) 867876
  - b) 534443
  - c) 678843
  - d) 554422
  - e) None of the above
- 12. In a race, four friends ran different distances in different amounts of time. Alex ran 100 meters in 12 seconds. Bob ran 80 meters in 10 seconds. Cathy ran 60 meters in 8 seconds, and Danish ran 120 meters in 15 seconds. Who was the fastest runner?**
- a) Alex
  - b) Bob
  - c) Cathy
  - d) Danish
  - e) None of the above

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**13. Lina the squirrel has 24 acorns. She eats 3 acorns every day. She ate the 15th acorn on Friday. On which day did she start eating the acorns?**

- a) Sunday
- b) Monday
- c) Tuesday
- d) Wednesday
- e) None of the above



**14. In a bookstore, there is some money in the cash register at the beginning of the day. After selling 4 notebooks, there are 88 dollars in the register. After selling a total of 14 notebooks, there are 138 dollars in the register. How many dollars were in the register at the beginning of the day?**

- a) 38
- b) 48
- c) 58
- d) 68
- e) None of the above

**15. Three classmates Mia, Zoe, and Ava are exactly the same age. Their elder friend, Sophia, is 4 years older than each of them. If you add up all four of their ages, which of the following numbers could it be?**

- a) 25
- b) 27
- c) 28
- d) 31
- e) None of the above

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**16. There are some cages in a farm. Each cage contains either 6 hens and 3 ducks, or 8 hens and 4 ducks. Altogether, there are 25 ducks on the farm. How many hens are there?**

- a) 40
- b) 45
- c) 50
- d) 55
- e) None of the above

**17. In a classroom, there are 30 more fingers than thumbs, counting only hands (not feet). How many students are there in the classroom?**

- a) 4
- b) 5
- c) 6
- d) 8
- e) None of the above



**18. A box contains red, blue, green, and yellow marbles. The number of red marbles is twice the number of blue marbles. The number of green marbles is 4 more than the number of blue marbles. The total number of red, blue, and green marbles is equal to the number of yellow marbles. Altogether, there are 40 marbles in the box. How many yellow marbles are there?**

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- a) 4
- b) 8
- c) 16
- d) 20
- e) None of the above

**19. A square park has a smaller square flower bed inside it. The side of the big square park is 20 meters. The flower bed is placed exactly in the center of the park and its corners touch the midpoints of the sides of the park. What is the area of the flower bed?**

- a)  $100 \text{ m}^2$
- b)  $150 \text{ m}^2$
- c)  $200 \text{ m}^2$
- d)  $300 \text{ m}^2$
- e) None of the above