

KANGAROO STUDY

2025 SASMO MOCK TEST(P3)

Time: 90 min

**Section A (Correct answer- 2 points; No answer- 0 point;
Incorrect answer-minus 1 point)**

1. What is the value of the following sum?

$$85 + 72 + 64 + 53 + 47 + 38 + 29 + 16$$

- A. 404
- B. 414
- C. 424
- D. 434
- E. None of the above

2. What is the number on the line?

2, 6, 18, 54, ____, 486,

- A. 108
- B. 162
- C. 216
- D. 270
- E. None of the above

3. The starting time and duration for different movies are as shown below.

	Burning Fire Duration: 1 h 30 min		"Nezha 2": 2 h	
Movie Timings	11 a.m.	4:30 p.m.	10:30 a.m.	4:50 p.m.
	12:20 p.m.	5 p.m.	2:40 p.m.	6 p.m.
	2:45 p.m.	8:55 p.m.	4:30 p.m.	9 p.m.

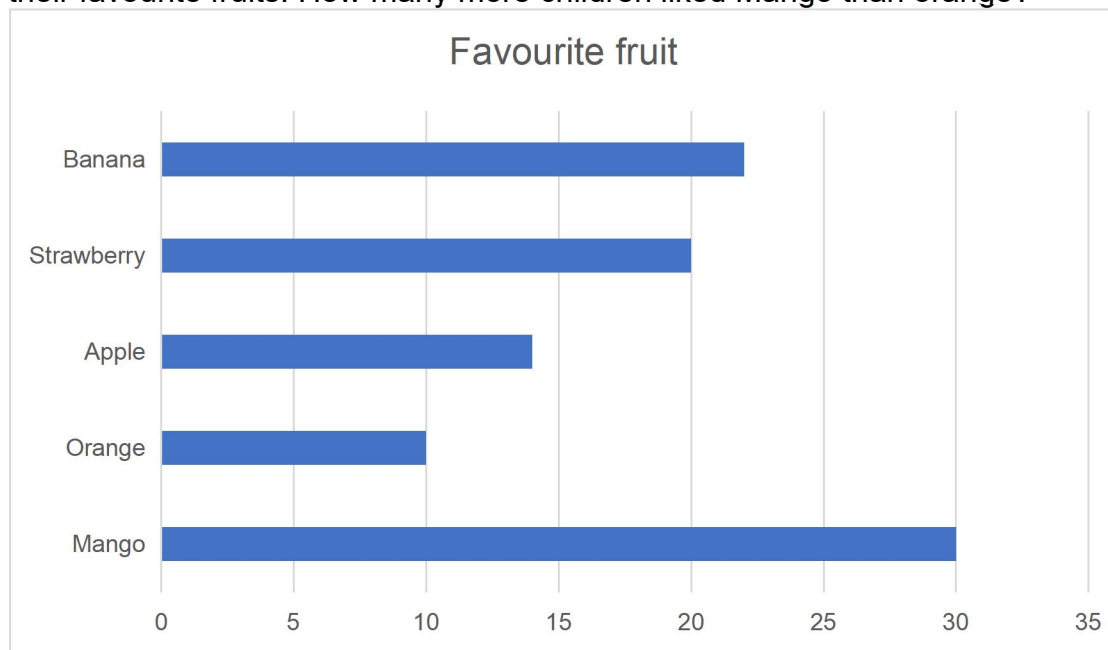
Shanice arrived the cinema at 4:35 pm. She watched "Nezha 2". What is the earliest time she can leave?

- A. 6:35 pm
- B. 6:30 pm
- C. 6:50 pm
- D. 8 pm
- E. None of the above

4. Little Snail originally had 13 leaves at home. Every morning, it goes out to collect 6 leaves; every afternoon, it goes out to collect 2 leaves; and every night, it eats 3 leaves at home. On which day will it have 34 leaves at the earliest?

- A. 3rd
- B. 4th
- C. 5th
- D. 6th
- E. None of the above

5. The bar graph below shows the number of children who took part in a survey on their favourite fruits. How many more children liked Mango than orange?



- A. 30
- B. 20
- C. 10
- D. 40
- E. None of the above

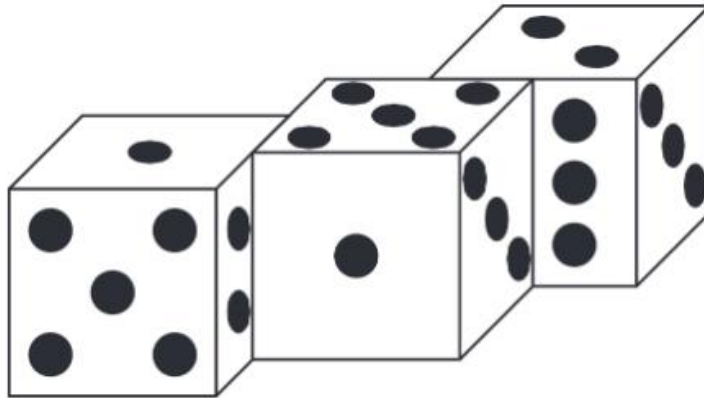
6. Which of the given numbers of pencils can be evenly arranged into groups of 6 without any remaining?

- A. 94
- B. 166
- C. 712
- D. 1956
- E. None of the above

7. The sum of James's age and Jordan's age is 30 years. James's age is twice that of Jordan's age. How old is James?

- A. 60
- B. 20
- C. 15
- D. 10
- E. None of the above

8. The points on the six faces of each cube dice are 1, 2, 3, 4, 5, and 6, respectively. What is the sum of invisible points in the following picture?



- A. 25
- B. 38
- C. 51
- D. 63
- E. None of the above

9. Every 3 empty wine bottles can be exchanged for 1 bottle. Cindy has 14 empty wine bottles. How many bottles of wine can she exchange for at most? (Borrowing empty wine bottles is not allowed)

- A. 6
- B. 5
- C. 4
- D. 3
- E. None of the above

10. A rectangle has a perimeter of 70 centimeters and a width of 15 centimeters. What is the area of this rectangle (in cm^2)?

- A. 400
- B. 300
- C. 200
- D. 150
- E. None of the above

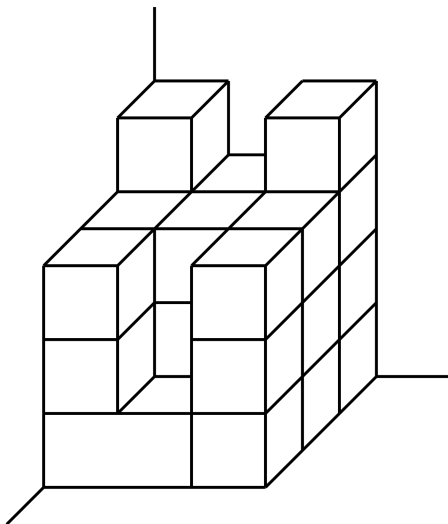
11. The quantity of beverages on the first and second shelves of the store was originally the same. Now, 6 bottles are taken from the first shelf and placed on the second shelf, making the quantity of beverages on the second shelf 5 times that of the first shelf. How many bottles of beverages were originally on the first shelves?

- A. 3
- B. 6
- C. 9
- D. 12
- E. None of the above

12. If the four-digit even number $\overline{9a8b}$ is divisible by both 9 and 5, what number does "a" represent?

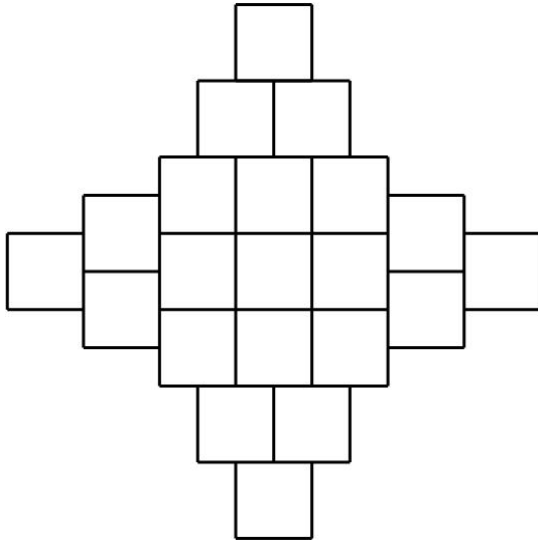
- A. 1
- B. 2
- C. 3
- D. 5
- E. None of the above

13. The following figure is composed of 21 cubes of the same size and some cuboids of the same size (more than 1 cuboid) . How many cuboids are there in the figure below?



- A. 27
- B. 10
- C. 6
- D. 3
- E. None of the above

14. The side length of a small square is 3 cm. Find the perimeter of the follow figure.



- A. 21 cm
- B. 63 cm
- C. 84 cm
- D. 189 cm
- E. None of the above

15. Four children, Allen, Billy, Chloe and Daisy, were playing football in the yard. After a loud noise, they found a glass window had been broken. Someone in the house leaned out and asked angrily, "Who broke the glass?"

Allen said, "It was accidentally broken by Billy."

Billy said, "It was Daisy who broke it."

Daisy said, "Billy is lying!"

Chloe said, "I didn't break it anyway."

If only one child told the truth, then who is this honest child?

- A. Allen
- B. Billy
- C. Chloe
- D. Daisy
- E. Not enough to determine

Section B (Correct answer - 4 points; Incorrect or No answer - 0 point)

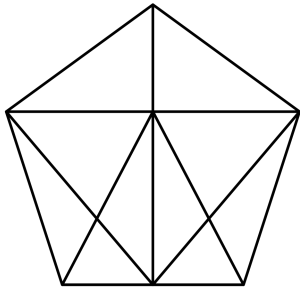
16. Alex, Ben, and Cindy together have 68 exercise books. Among them, Alex has 7 more exercise books than Ben, and after Ben gives 6 exercise books to Cindy, Ben will have 4 fewer exercise books than Cindy. How many exercise books does Alex originally have?

17. The sum of the digits of an even 3-digit number is 10. What is the largest possible such 3-digit number?

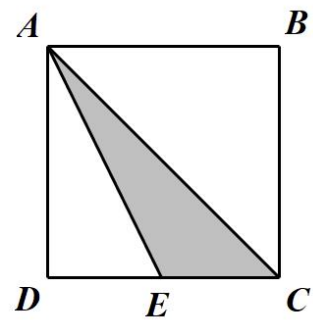
18. There are 6 yellow fish, 7 black fish and 8 red fish in the pond. Alex catches some fish without looking. What is the smallest number of fish he needs to catch to make sure that he gets 3 black fish?

19. Alex has 20 less books than Ben. Later, Alex lost 5 books, and Ben bought 11 new books. At this time, Ben's books are three times that of Alex. How many books did Alex have originally?

20. How many triangles are there in the figure below?



21. The figure below shows a square ABCD and E is the mid-point of CD. Given that the area of triangle ACE is 49 cm^2 . Find the perimeter (in cm) of the square ABCD.



22. Three people, Ali, Betty, Charlie are good at 3 different sports, swimming, volleyball, badminton and they are in P3, P4, P5 (not in order).

Ali is not P3.

Betty is not P4.

The one who is good at volleyball is not P5.

The one who is good at swimming is P3.

Betty is not good at swimming.

Who is good at badminton?

If your answer is Ali, shade 0001.

If your answer is Betty, shade 0002.

If your answer is Charlie, shade 0003.

23. Tom creates 3-digit multiples of 9 using 3 digits from the digits 3, 4, 5, 6 and 9 without repetition. How many such 3-digit numbers can Tom create?

24. From 100 to 499, how many numbers have a digit sum that is a multiple of 4?

25. The same letter represents the same digit, and different letters represent different digits. Find the maximum value of the three-digit number ABC.

$$\begin{array}{r} A A A \\ B B B \\ + C C C \\ \hline D 9 9 E \end{array}$$