Mathlete Training Centre

2024 HXC P1

1. Among the following numbers, which is the largest three-digit odd number?

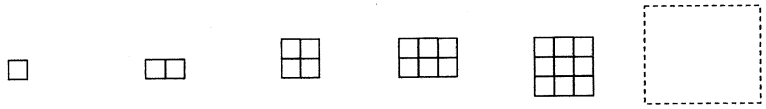
675, 54, 428, 845, 4286, 216, 968, 5977

2. Hua is 8 years old this year, and his mother is 26 years older than him. When Hua is 12 years old, how many years younger is he compared to his mother?

3. Is the result of the following expression odd or even?

253 + 919 - 658 + 740 - 37 + 385 - 814

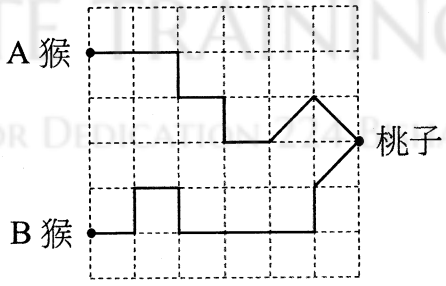
4. Referring to the following images, by observing the pattern, how many small squares should be inside the dashed rectangle?



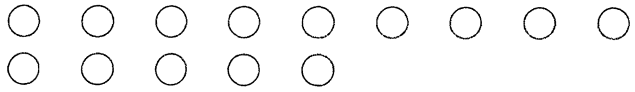
5. According to the pattern, what should A be?

1,2,4,7,11,16,22,A,...

6. Referring to the following image, if Monkey A and Monkey B walk at the same speed, who will reach the peach first?



7. Referring to the following image, what is the minimum number of ◯s have to be moved such that both rows have the same number of ◯?



8. Xia has 20 assignments. After completing 12 of them, the teacher gives Xia an additional 24 assignments. How many assignments does Xia need to complete in total?

9. Find the value of 24+55+76+45.

10. If

$$\bigcirc = \triangle + \triangle + \triangle$$
$$\square = \bigcirc + \bigcirc$$

How many $\triangle$ are equare to 1 $\square$?

11. Fill in the appropriate numbers in the grid to make the equation valid. What three-digit number is $\overline{ABC}$?

$$\boxed{A}\ 3\ 7 + 2\ 4\ \boxed{B} = 6\ \boxed{C}\ 2$$

12. There are 10 students lined up in a row. If Xia is the 6^{th} student when counting from the front, what is Xia's position when counting from the back?

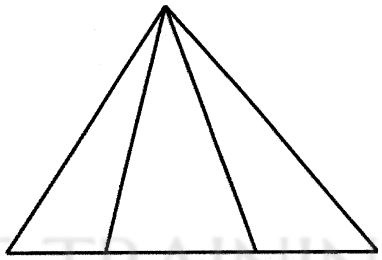
13. Referring to the attached table, fill in each blank space with a single-digit number to make the equation valid. Find the value of A+B.

$$\begin{array}{rcc} & 7 & 2 \\ - & 2 & \boxed{A} \\ \hline & \boxed{B} & 7 \end{array}$$

14. From 25 to 40 (including 25 and 40), how many natural numbers are there?

15. If Bei can make 4 cakes from 1 o'clock to 3 o'clock, following the same calculation, how many cakes can Bei make from 1 o'clock to 6 o'clock?

16. Referring to the attached image, how many triangles are there?



17. If

$$\bigcirc + \triangle = 12$$
$$\bigcirc + \triangle + \triangle = 20$$

What does 1 $\bigcirc$ equal to?

18. In a football league, each team plays against every other team 2 times. The result shows that the Huaxia team has won 11 matches, lost 8 matches, and had 5 draws. How many teams are participating in this league?

19. 15 candies are divided into 4 piles with different quantities, ensuring that each pile has at least 2 candies. How many candies are in the pile with the maximum quantity?

20. m = $\overline{ABCD}$ is the smallest four-digit even number without repeated digits, and n is the largest four-digit odd number composed of A, B, C, and D. Find the value of n-m.

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