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சபரகமுவ மாகாணக் கல்வித் திணைக்களம்
Department Of Examination Sabaragamuwa

ගණිත ඔලිම්පියාඩ් තරඟාවලිය් 2025

Mathematical Olympiad Competition – 2025

කාණ්ඩය - 1
Category - I

Zonal level selection test

One hour
ஒரு மணித்தியாலம்
පැය එකයි

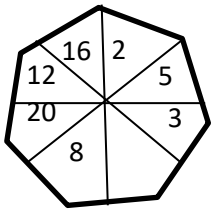
Name - ..... School - .....

Answer all questions

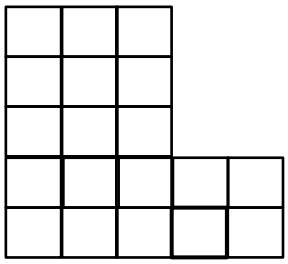
(1) Complete the blank with the suitable number of the number pattern given below.

111223 , 242549, ...

(2) Complete the blank of puzzle using the suitable whole number



(3) How many squares are there in this figure

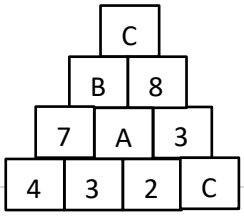


(4) When a certain number is divided by 60 the remainder is 32 . What is the remainder when this number is divided by 15?

(5) Write the last two digits of the answer of the following multiplication

125 × 625 × 3125 = ……..

(6) Find the value of C



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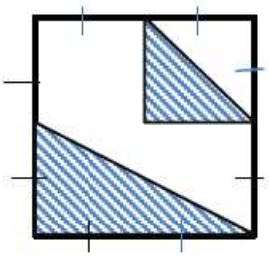
(7) Find the value $1 + 3 + 5 + \ldots\ldots\ldots 97 + 99$

(8) What fraction of the whole figure is shaded

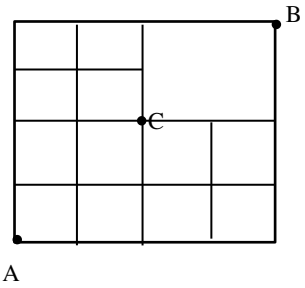


9) Find the value .

$$\frac{1}{2-\frac{1}{2-\frac{1}{2}}}$$

(10) If 74A52B1 and 326AB4C are two numbers including 7 digits and if both numbers are divisible by 3, what is the value of C

(11) What is the number of shortest roads to go to B from A across C ?



(12) The product of the ages of Awyan and Akasi is 36 years ,and thye sum of their ages is 15 years . If Awyan is elder than Akasi find the age of Akasi .

(13) How many triangles are there in this figure ?

.....

(14) Samitha played a game with a friend by turning pages of a text book . If any page with a number in this number pattern is turned he gets a win .

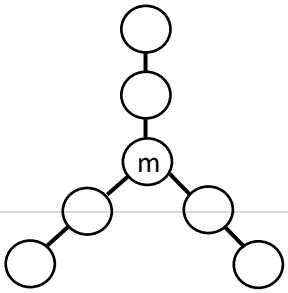
1 , 3, 6 10 ...

If he has turned the page 177 will he receive a win ? Give reasons for your answer .

(15) 354213542135421..... What is the 53rd digit of this number according to the pattern of digits in it ? .....

(16) When digits 2,3,4,5,6,7 ,8 are put in circles in each row the sum of three digits must be same . If one digit can be used only once what should be the value of m ?

.....



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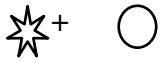
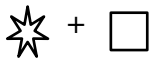
(17) By the sign (*) it shows a new mathematical operation . Some examples are given below.

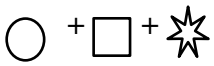
3 * 4 = 13
2 * 5 = 9
6 * 2 = 38

According to them find the value of 4 * 4 = ?

(18) If the number 754A2B which is including six digits is divisible by 2 ,3 , and 5 , what is the minimum value of A + B ? ……

(19)  = 5

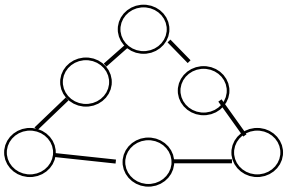
 = 7

 = 10

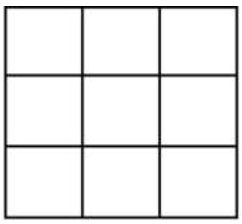
According to the pattern shown here find the value of

(20) Sithum gave $\frac{1}{2}$ of the oranges he had to his best friend and gave 10 oranges to his younger sister . Half of the remaining oranges, he gave to his mother and father and he ate 3 oranges . If he is having 5 more oranges at hand, what is the number of oranges he initially had ? ……

Part **B**

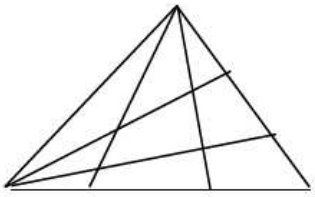
(1) 

Complete the blank circles by using digits from 1 to 6. The sum of the three digits along each side of the triangle must be equal to 12 and one digit can be used only once.

(2) 

Complete the blank squares by using digits from 1 to 9. The sum of the three digits along each row and column and along two diagonals also must be the same. One digit can be used only once.

(3) What is the number of triangles in this figure?



(4)

		3	
		1	
			1
3		2	

Complete the blank squares by using digits from 1 to 4 and one digit can be used only once in one row or column .

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