MATHEMATICS OLYMPIAD GRADE THREE

DATE: 4-18 AUGUST 2025

TIME: 75 MINUTES

INSTRUCTIONS:

1. This booklet has 12 multiple choice questions and 3 open ended questions.
2. Use the answer sheet provided.

   Circle the letter corresponding to your answer.
3. All working details must be done in the space provided.
4. Calculators are not permitted.
5. Diagrams are not necessarily drawn to scale.
6. The first 10 problems carry 1 mark each and the next 5 carry 2 marks each.
7. You have 75 minutes for the paper which works out to an average of 5 minutes per question.
8. Read the questions carefully before answering.
9. The teacher will read the question to you.
10. Visit the website: www.saolympiads.co.za.

ENJOY THE OLYMPIAD!

GRADE THREE

1. **Find the value of ☐ which will make this sentence true.**
60 = 84 - ☐ - ☐

(A) 16 **(B) 14** **(C) 12**

2. **Each letter in the following addition problem represents a digit.**

$$\begin{array}{r} A\ B \\ A\ B \\ +\quad B \\ \hline 1\ 1\ 8 \end{array}$$

What is the value of A + B?

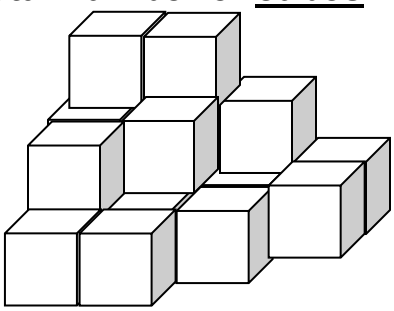
(A) 15 **(B) 13** **(C) 11**

3. **Write down the 20th number of this addition pattern:**
4; 9; 14; 19; 24;…

(A) 99 **(B) 95** **(C) 90**

4. **Aryn counted in 3's as follows from 15:**
15; 18; 21; 24;….
Determine the position of the number 57 in the sequence.
(A) 14th **(B) 15th** **(C) 16th**

5. **The total number of cubes in this arrangement is…**



(A) 21 **(B) 22** **(C) 23**

6. In the game below no number must appear more than once in a row, column or in a 2 by 2 block (shaded). Use only 4; 6 ; 8 and 10. What number would be at X?

	10		
4			8
		x	
			6

(A) 4 (B) 8 (C) 10

7. Pam spent $\frac{3}{4}$ of the coins which was the same as 135.
What is $\frac{1}{3}$ of the coins?

(A) 45 (B) 50 (C) 60

8. Guess the number I stand for:
   - I am a 3 digit number.
   - My hundred's digit is 2 less than my ten's digit.
   - The sum of my digits is 16.
   - My unit's digit is 3 less than the ten's digit.

(A) 466 (B) 574 (C) 358

9. If 32 x ☐ = 49, then what is 64 x ☐ = …..

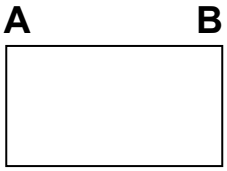
(A) 94 (B) 96 (C) 98

10. Each letter in the following subtraction problem represents a digit.
What is the value of A + B?

$$\begin{array}{r} 4\ A\ 2 \\ -\ B\ 7\ A \\ \hline 1\ 8\ 6 \end{array}$$

(A) 7 (B) 8 (C) 9

11.



There are 148 trees which are equally spaced apart on all 4 sides of a rectangular garden. There are twice as many trees between A and B than between B and D. How many trees are between B and D?

(A) 24 (B) 36 (C) 26

12. Bes walks twice as fast as Candice. Candice walks twice as fast as Dan. If Dan took 24 minutes to walk from Eon to Neon. How long in minutes did it take Bes to walk the same distance if she walked at the same rate?

(A) 48 (B) 12 (C) 6

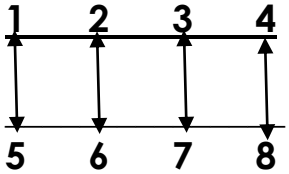
13. Try to work out what # is doing to the 2 numbers.

4 # 1 = 9 5 # 5 = 19
5 # 3 = 15 3 # 5 = 15

Now find the answer to: 7 # 3

14. The numbers 1;2;3;4 are repeated continuously. What is the sum of the first 83 numbers?

15. There are 8 learners standing opposite each other as per the diagram.



If there are 32 learners arranged in the same way, then what number will the number 18 be standing opposite of?

END