SOUTHERN AFRICAN FOUNDATION PHASE MATHEMATICS OLYMPIAD FEMSSISA

GRADE 3

E-mail : Info@saolympiads .co.za website: www.saolympiads.co.za

DATE: 15 - 19 AUGUST 2022

TIME: 75 MINUTES

INSTRUCTIONS:

1. This booklet has 15 multiple choice 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 one 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!

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GRADE THREE

1. **Find the value of ☐ which will make this sentence true.**

   30 + ☐ + ☐ + ☐ = 75

   (A) 21 (B) 18 (C) 15

2. **My cellphone number is 0732627119.**
   The sum of the digits of my cellphone number is…

   (A) 38 (B) 39 (C) 40

3. **Write down the 10th number of this addition pattern:**
   8; 18; 28; 38;…

   (A) 88 (B) 98 (C) 108

4. **Emy counted in 4's as follows from 12:**
   12; 16; 20; 24;….

   What position does 68 occupy in the above pattern?
   (A) 14th (B) 15th (C) 16th

5. **What is the 7th number of this pattern?**
   4; 4; 8; 12; 20; 32; …

   (A) 52 (B) 48 (C) 44

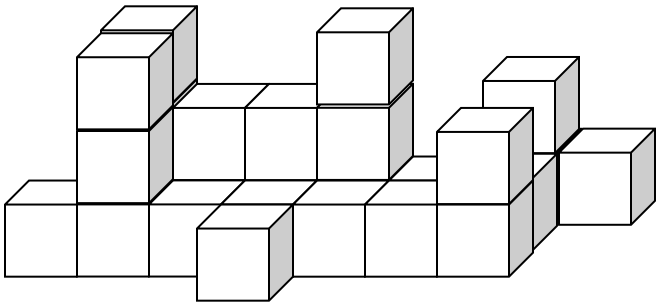
6. Lindy needs R1600 to buy a game. She has three R200 notes, five R100 notes and three R50 notes. How much more does she need to buy this game?

(A) R150 (B) R250 (C) R350

7. Jenny gave out $\frac{2}{3}$ of the chocolates which was same as 24.
What is $\frac{3}{4}$ of the number of chocolates?

(A) 27 (B) 30 (C) 33

8. The total number of cubes in this arrangement is…



(A) 24 (B) 25 (C) 26

9. If 70 x ☐ = 160, then what is 35 x ☐ = …..

(A) 100 (B) 80 (C) 60

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10. Each letter in the following subtraction problem represents a digit.

What is the value of A + B?

$$\begin{array}{r} A\ 0\ A \\ -\ B\ B\ 8 \\ \hline 2\ 8\ 6 \end{array}$$

(A) 5 (B) 6 (C) 7

11. Dimple counted in 4's from 4 to 80.
Nandi counted in 5's from 5 to 80.
How many numbers were counted from 4 to 80?

(A) 36 (B) 32 (C) 28

12. Tembi collected 20 shells less than Sue.
Sue collected 30 shells more than Rosy.
Rosy collected 10 shells less than Jade.
The total shells collected by all was 330.
How many did Jade collect?

(A) 100 (B) 90 (C) 80

13. In the game below no letter must appear more than once in a row, column or in a 2 by 2 block (shaded).
Use only T; A; P and E.
What letter would be at 1?

P		1	
		A	
			E
E			A

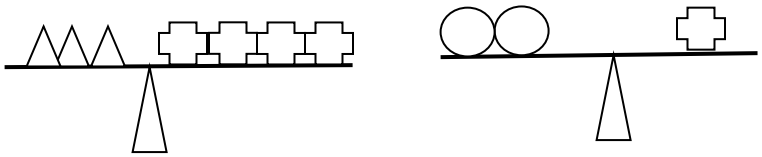
(A) E (B) T (C) A

14. Guess the number I stand for:

- **I am a 3 digit number.**
- **My hundred's digit is twice my unit's digit.**
- **The sum of my digits is 11.**
- **My unit's digit is 1 less than twice my ten's digit.**

(A) 633 (B) 623 (C) 412

15. The following is in balance.



How many circles can be balanced by 6 △ s?

(A) 8 (B) 12 (C) 16

END