SOUTHERN AFRICAN FOUNDATION PHASE MATHEMATICS OLYMPIAD FEMSSISA

GRADE 2

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.

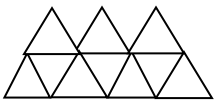
   Circle the letter corresponding to your answer.
3. All working details must be done in the space provided.
4. Calculators are not permitted.
5. Diagrams are not necessarily drawn to scale.
6. The first 10 problems carry one mark each and the next 5 carry 2 marks each.
7. You have 75 minutes for the paper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

ENJOY THE OLYMPIAD.

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

GRADE TWO

1. Count the number of <u>triangles of all sizes</u> in this arrangement:



(A) 12 (B) 13 (C) 14

2. Find the value of ☐:

44 + 28 = 90 - ☐

(A) 18 (B) 20 (C) 22

3. Find $\frac{1}{2}$ of 50 + $\frac{1}{2}$ of 30:

(A) 50 (B) 45 (C) 40

4. <u>Half of</u> 76 equals:

(A) 38 (B) 36 (C) 32

5. Write down the value of ☐ in the following addition problem:

$$\begin{array}{r} \square\,\square \\ +\ 9\ \square \\ \hline 1\ \square\ 0 \\ \hline \end{array}$$

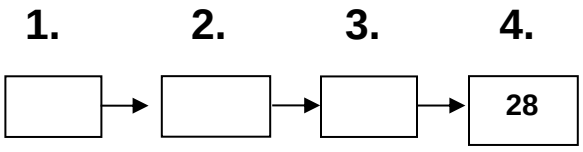
(A) 4 (B) 5 (C) 6

6. After giving 32 cakes to her friends in Grade 2A and 27 to her friends in Grade 2B, Amy still had 28 left. How many cakes did she start off with?

(A) 85 (B) 86 (C) 87

7. Links and Chains

Double the number and subtract 4 each time to move from one block to the other. Which number is in block 1?



(A) 5 (B) 7 (C) 9

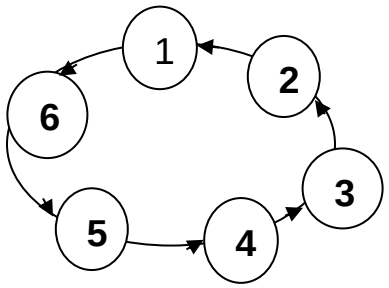
8. There are 30 numbered blocks below:

1	3^p	5	7	9	11
23	21	19	17	15	13
25	27	29	31	33	35
47	45	43	41	39	37
49	51	53	55	57	59

p moves 2 blocks downwards, 1 block to the left; 2 blocks downwards and 4 blocks to the right. On which block is *p* now on?

(A) 57 (B) 39 (C) 59

9.



Hopper jumps from one numbered circle to the other starting from 1 to 6, to 5, to 4 and so on. She visited 50 circles. On which circle did Hopper land on? Do not count 1.

(A) 5 (B) 4 (C) 3

10. Rennie had to guess the number of marbles in a closed box. Guess one was 70 – wrong by 2; guess two was 65 – wrong by 3. How many marbles were in the box?

(A) 62 (B) 72 (C) 68

11. Paula was on a certain step on a staircase. She climbed up 6 steps and then went down 8 steps. She then climbed up 5 steps. She was on step 16. On which step did she start from?

(A) 13 (B) 12 (C) 14

12. Study the following problem. Do you know what # is doing to the two numbers?

7 # 8 = 6 5 # 2 = 8
4 # 1 = 7 8 # 8 = 8

Find the value of: 6 # 3

(A) 8 (B) 9 (C) 10

13. Who is the tallest?
Orion is taller than Bev.
Senso is shorter than Desiree.
Desiree is taller than Orion.

(A) Senso (B) Desiree (C) Orion

`

14. The sum of 4 different numbers is 88. Each number is 6 more than the previous number. What is the largest number?

(A) 31 (B) 25 (C) 24

15.

A	B	C

A, B and C are 3 coin boxes. A has 10 more than twice the number of coins than B. C has 10 less than half the number of coins that B has. If the total number of coins in all 3 boxes is 140 then determine the number of coins in B.

(A) 50 (B) 45 (C) 40

END