MATHEMATICS OLYMPIAD GRADE ONE

DATE: 12 AUGUST 2024 – 16 AUGUST 2024

TIME: 75 MINUTES

INSTRUCTIONS:

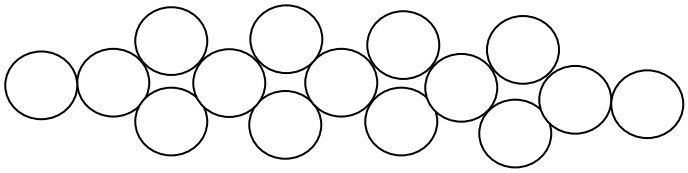
1. This booklet has 12 multiple choice questions and 3 open ended questions.
2. Use the answer sheet provided.

   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. Do not rush.√
9. Your teacher will read the questions to you.
10. Visit the website: www.saolympiads.co.za.

ENJOY THE OLYMPIAD.

GRADE ONE

1. Count the number of circles in this arrangement.



(A) 16 (B) 15 (C) 14

2. Give the number which is 14 more than 27?

(A) 41 (B) 39 (C) 37

3. Which number is smallest?

18; 32; 24; 28; 16

(A) 24 (B) 16 (C) 18

4. Give the value of ☐ in this problem.
40 - ☐ = 19

(A) 17 (B) 19 (C) 21

5. Give the 9th number in this pattern (adding 6):

12; 18; 24; 30; ……

(A) 48 (B) 54 (C) 60

6. Find the value of: □

36 + □ + △ = □ + △ + □ + □

(A) 18 (B) 17 (C) 16

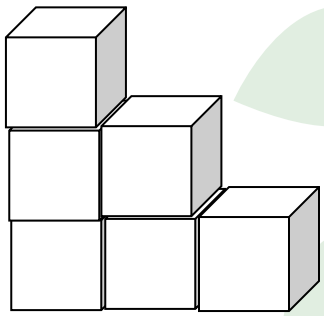
7. Look at this pretty square below:

41	39	37	35	33
31	29	27	25	23
21	19	17	15	13
11	9	7	5	3^0

A coin was placed at 3.
It was moved 4 places to the left, 3 places up, 3 places to the right and 1 place down.
On which numbered square is the coin now on?

(A) 27 (B) 25 (C) 23

8. Six blocks make 3 stairs. How many blocks are needed to make a staircase with 5 steps?

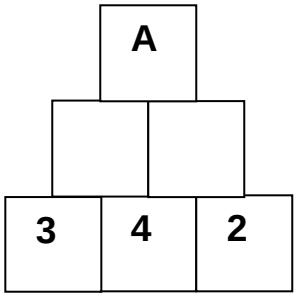


(A) 16 (B) 14 (C) 15

9. Treble the number '12' and take away '6' from the answer. What will the number now be?

(A) 24 (B) 30 (C) 36

10. In the game called "Pyramaths", the rule is to add the numbers in the 2 blocks below and double your answer, to give the number in the block above. Find A.



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

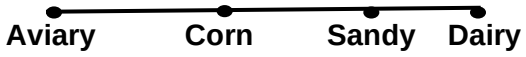
11. Daisy gave ½ the cakes to 1 group of learners. She then gave 20 cakes to another group of learners. She still had 15 cakes left. How many cakes did Daisy start off with?

(A) 60 (B) 70 (C) 80

12. **Penny has 20 discs more than Rosy.**
Rosy has 15 discs more than Thando.
If all three had 110 discs, then how many discs did Rosy have?

(A) 45 (B) 40 (C) 35

13. **Eave walked 200 metres to the left from Sandy on a straight road to Aviary. She then walked 330 metres to the right to Dairy and then 180 metres to the left to Corn. How far in metres is Corn to Aviary?**



14. **Who is the shortest?**
Linda is taller than Sandra.
Nancy is shorter than Sandra.
Tanya is taller than Sandra.

15. **At a hyperstore you could buy 4 pens for the same price as 3 rulers. Germain bought 16 pens.**
How many rulers could he get?

END