South African Primary School
Mathematics Olympiad: Grade 4 - 7

science & innovation
Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA

SA OLYMPIADS

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SA OLYMPIADS MATHEMATICS
GRADE 4

DATE: 3 – 19 AUGUST 2026
TIME: 90 MINUTES

INSTRUCTIONS:

1. This booklet has 15 multiple-choice questions (Questions 1–15) and 5 open-ended questions (Questions 16–20).
2. Use the answer sheet provided. For the multiple-choice questions, circle the letter corresponding to your answer.
3. All working details must be done in the space provided or on the answer sheet.
4. Calculators are NOT permitted.
5. Diagrams are not necessarily drawn to scale.
6. Questions 1–15 carry 1 mark each; Questions 16–20 carry 2 marks each.
7. You have 90 minutes for the paper (an average of 4.5 minutes per question).
8. Read the questions carefully before answering.
9. Visit the website: www.saolympiads.co.za.

ENJOY THE OLYMPIAD!

GRADE 4

SECTION A: MULTIPLE CHOICE (Questions 1 – 15, 1 mark each)

1. Evaluate: 150 + 120 ÷ 15

(A) 148 (B) 158 (C) 160 (D) 170

2. Nine thousand and sixty can be written as:

(A) 9600 (B) 9006 (C) 9060 (D) 90060

3. Evaluate: 808 × 125

(A) 101000 (B) 11000 (C) 10100 (D) 100100

4. What is the 30th number of this addition sequence: 2; 8; 14; 20; …

(A) 168 (B) 172 (C) 176 (D) 180

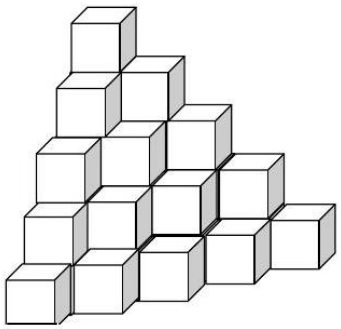
5. Jerome has two and a half times as many coins as Sheila. If together they have 700 coins, how many coins does Sheila have?

(A) 500 (B) 400 (C) 300 (D) 200

6. Romy placed a cake in the oven at 08:55. It took 55 minutes to bake. At what time must the cake be removed from the oven?

(A) 09:45 (B) 09:50 (C) 09:55 (D) 10:05

7. What is the smallest number of cubes that must be added to the arrangement shown to form one large cube?



(A) 24 (B) 30 (C) 35 (D) 90

8. Sid had only one quarter (¼) of the milk left in a tank. Sid then added 120 litres and the tank was now three quarters (¾) full. What is the capacity of the tank, in litres?

(A) 220 (B) 240 (C) 260 (D) 280

9. Determine the 3-digit number such that:

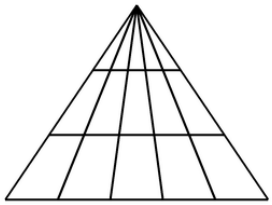
(i) the units digit is 4 more than the tens digit;

(ii) the number is divisible by 3;

(iii) the sum of the digits is 18.

(A) 837 (B) 892 (C) 729 (D) 451

10. How many triangles of all sizes are there in this figure?



(A) 60 (B) 64 (C) 66 (D) 68

11. In the subtraction problem below, certain digits have been replaced by letters. Find the value of A + B + C.

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  5  A  6
- A  B  C
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  1  7  9
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(A) 12 (B) 13 (C) 14 (D) 15

12. In a hall there are seats for 960 people. There are 32 seats in each row. How many rows are there in the hall?

(A) 28 (B) 30 (C) 32 (D) 36

13. A container holds R2 and R5 coins. There are one and a half times as many R2 coins as R5 coins. The total amount is R480. How many R2 coins are there?

(A) 70 (B) 80 (C) 90 (D) 100

14. Study the following pattern. Discover the rule that the operator © represents, then find the answer to 4 © 5.

4 © 3 = 10 **3 © 1 = 7** **2 © 2 = 0**

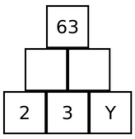
(A) 6 (B) 7 (C) 8 (D) 9

15. In a tournament with 10 teams numbered 1 to 10, every team played each of the other teams exactly once. How many matches were played in total?

(A) 90 (B) 75 (C) 60 (D) 45

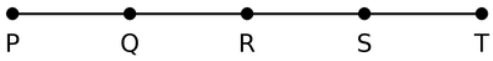
SECTION B: OPEN ENDED (Questions 16 – 20, 2 marks each)

16. In the game called “PYRAMATHS”, the number on the left of each pair is multiplied by itself and added to the number on the right to give the number in the box above. The bottom row shows 2, 3 and Y. The top box shows 63. Find the number that should replace Y.



17. How many 3-digit numbers from 222 to 322 have all three digits even, with no zero appearing as any digit?

18. Five houses P, Q, R, S and T are on a straight road, in that order from left to right. The distances are: PR = 140 m, QS = 150 m, RT = 210 m, QT = 270 m. What is the distance from R to S in metres?



19. Consider the following pattern:

$2 + 4 = 6 = 2 \times 3$

$2 + 4 + 6 = 12 = 3 \times 4$

$2 + 4 + 6 + 8 = 20 = 4 \times 5$

If the sum of n consecutive even numbers starting from 2 is 420, then n = ?

20. Gloria made 3-digit numbers from 5 plastic digits: 2, 4, 6, 1 and 3 (no digit may be repeated within a number). How many of these 3-digit numbers are even?

MARKS: 1–15: 15 × 1 = 15

16–20: 5 × 2 = 10

TOTAL: 25