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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MATHEMATICS OLYMPIAD

GRADE FIVE

DATE: 18 AUGUST 2026

TIME: 90 MINUTES

INSTRUCTIONS:

1. This booklet has 15 multiple-choice and 5 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 15 problems carry 1 mark each and the next 5 carry 2 marks each.
7. You have 90 minutes for the paper which works out to 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 FIVE

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

1. Evaluate: 555 + 666 – 333

(A) 999 (B) 888 (C) 777 (D) 666

2. Evaluate: 444 × 75

(A) 33300 (B) 33200 (C) 33100 (D) 33000

3. Determine the difference between 5151 and 555.

(A) 4 576 (B) 4 586 (C) 4 596 (D) 4 606

4. Divide equally 1728 soccer balls among 32 clubs.

(A) 64 (B) 54 (C) 44 (D) 48

5. Mandy drove 340 km from her house to a holiday destination in 5 hours. What is the average speed in km/h?

(A) 48 (B) 54 (C) 58 (D) 68

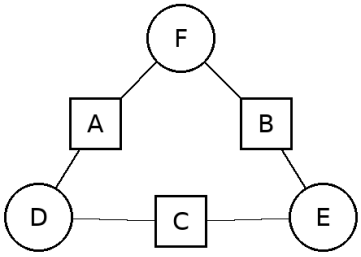
6. If $\frac{2}{3}$ of the learners in the school is 720 then what is $\frac{1}{4}$ of the learners in the school?

(A) 220 (B) 280 (C) 270 (D) 260

7. Taka was 3 positions to the right of the middle of the queue. She was also in position 47 from the left numbered from 1. How many people were in the queue?

(A) 87 (B) 86 (C) 84 (D) 81

8. In the game called Arithmogons, the sum of the 2 numbers in the 2 circles gives the number in the square between them.



If A + B + C = 60 and D + E = 22 then find the value of F.

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

9. Rix counted in 3s from 20 to 100. She also counted in 4s from 20 to 100. How many numbers were not counted?

(A) 38 (B) 39 (C) 40 (D) 41

10. A container is $\frac{3}{8}$ full of paint. When 20 litres was added it was $\frac{1}{2}$ full. What is the capacity of the container when full?

(A) 160 (B) 180 (C) 200 (D) 220

11. Annie has two and a half times as much money as Rosy. If both have R210 000 then how much does Rosy have?

(A) R50000 (B) R60000 (C) R80000 (D) R90000

12. A rectangular pool measures 50 metres by 10 metres. A border of 10 metres away was created on the width and 20 metres away on the length on the outside of the pool. What is the total length of all the boundary lines (the pool edges plus the outer border edge) in metres?

(A) 360 (B) 300 (C) 480 (D) 540

13. After a decrease of $\frac{1}{5}$ in the price, an item was sold for R1200. What was the price of the item before the decrease?

(A) R1300 (B) R1400 (C) R1500 (D) R1600

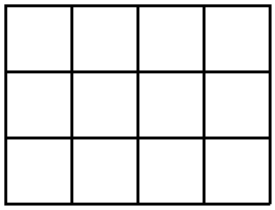
14. Study the following problem. Do you know what (@) is doing to the 2 numbers?

6 @ 4 = 10 3 @ 3 = 3 5 @ 4 = 7 4 @ 5 = 2

After you have discovered what (@) is doing then find the answer to: 7 @ 5

(A) 14 (B) 13 (C) 12 (D) 11

15. How many squares of all sizes are there in this figure?



(A) 16 (B) 18 (C) 20 (D) 22

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

16. Jenny wrote down a 2-digit number. She reversed the digits to obtain a new 2-digit number (46 would become 64). The 2 numbers were then added to give 121. The difference between the 2 numbers is 27. What is the larger 2-digit number?

17. Three numbers A, B and C are such that:

A + B = 60

B + C = 80

A + C = 90

What is the smallest number?

18. Four key points A, B, C and D are on a straight road and not necessarily in that order.

B is 200 metres to the right of D. C is 175 metres to the left of A. C is 50 metres to the left of D.

Write down the distance in metres from A to D.

19. Study the following arrangement of numbers:

7 9 11

13 15 17 19

21 23 25 27 29

……

What is the sum of the numbers in the 18th row?

20. Colour stones, namely blue (B) and green (G), were arranged as follows to make a pendant:

B B G G G B B G G G B B G G G B B G G G …

The arrangement has 175 stones. How many green stones are there?

MARKS: 1–15: 15 × 1 = 15

16–20: 5 × 2 = 10

TOTAL: 25