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 SIX

DATE: 19 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 SIX

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

1. Evaluate: $16 - 4 \times \frac{1}{4}$

(A) 10 (B) 12 (C) 14 (D) 15

2. What is (20 ÷ 7) correct to 2 decimal digits?

(A) 1.85 (B) 1.86 (C) 2.86 (D) 2.85

3. Find the value of ☐ if

$210 = ☐ \times ☐ - ☐$

(A) 15 (B) 14 (C) 13 (D) 12

4. Evaluate: 20 ÷ 0.05 × 0.4

(A) 180 (B) 160 (C) 140 (D) 120

5. Evaluate: 104 × 64 – 256

(A) 7200 (B) 6800 (C) 6400 (D) 5000

6. What is the price of 5 kg of butter if 750 g cost R240 at this rate?

(A) R1500 (B) R1600 (C) R1700 (D) R1800

7. The mass of 80% paint and the container is 14 kg. The mass of 40% paint and the container is 8 kg. What is the total mass of the paint with the container in kg?

(A) 20 (B) 19 (C) 18 (D) 17

8. When the 5-digit number 4mm3m is divided by 5 the remainder is 1. The value of m is …

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

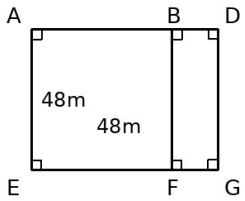
9. What is the best estimate price of 400 g of dark chocolates at R289.99 per kg?

(A) R125 (B) R120 (C) R115 (D) R110

10. Find the value of $\frac{444+444+444}{888+888+888+888}$

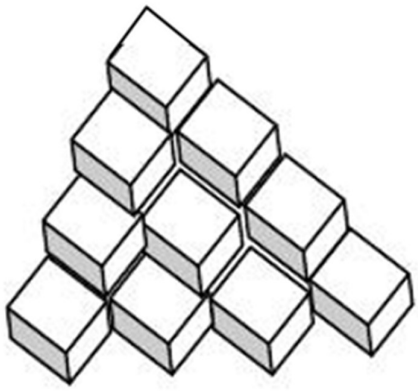
(A) $\frac{3}{4}$ (B) $\frac{3}{8}$ (C) $\frac{1}{8}$ (D) $\frac{1}{4}$

11. The perimeter of rectangle BDGF is two thirds the perimeter of rectangle ABFE. Determine the area of ADGE in square metres.



(A) 2880 (B) 3072 (C) 3360 (D) 3456

12. This tower is 4 storeys high and is made up of cubes. How many cubes must be added to make a tower 9 storeys high?



(A) 145 (B) 120 (C) 84 (D) 56

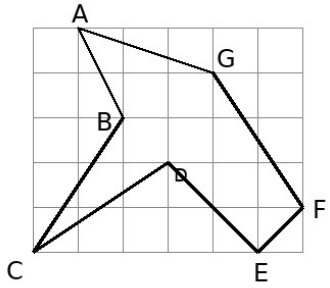
13. My watch gains 3 minutes every hour. The time was correct at 07:00. What was the actual time when the watch shows 17:00?

(A) 16:01 (B) 16:31 (C) 17:30 (D) 18:00

14. Amy is 3 times the age of Betty. In 6 years' time Betty would be half the age that Amy is today. What would Betty's age be when Amy is 40?

(A) 15 (B) 16 (C) 17 (D) 18

15. Determine the area of ABCDEFGA (in cm²) if each square is 1 cm².



(A) 15 (B) 14 (C) 13 (D) 12

16. If $\frac{7}{n} + \frac{1}{3} = \frac{4}{5}$ then the value of 'n' is …

17. A company manufactured 3 leg, 4 leg and 5 leg tables. The number of 3 leg tables is twice the number of 4 leg tables. There are 1750 legs and 450 tables. How many 5 leg tables were manufactured?

18. 50 natural odd numbers were arranged from 11. Every 3rd number was struck off. Of the remaining numbers every 2nd number was struck off. How many numbers divisible by 5 remained?

19. Consider the following sequence (read one 1; two 1's; three 1's and so on):

1 1; 2 1 1; 3 1 1 1; 4 1 1 1 1; 5 1 1 1 1 1; …

If the total of all the numbers is 156 then determine the number of 1's in the sequence.

20. 4 people Andy, Bunny, Candice and Desiree each play one code of sport: either volleyball, soccer, chess or basketball.

Andy does not play volleyball
Bunny used to play basketball
Candice does not play soccer or chess
Desiree plays chess
Andy used to play basketball

Who plays volleyball?

MARKS: 1–15: 15 × 1 = 15

16–20: 5 × 2 = 10

TOTAL: 25