MATHEMATICS OLYMPIAD GRADE 4

DATE: 5-19 AUGUST 2025

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.

1. Evaluate: 200 – (100 - 80)
   (A) 190 (B) 180 (C) 170 (D) 160

2. The number ten thousand, two hundred and twenty can be written as:
   (A) 10 220 (B) 10 200 (C) 10 202 (D) 1 220

3. Evaluate:
   404 x 75

   (A) 30 300 (B) 31 300 (C) 32 300 (D) 34 000

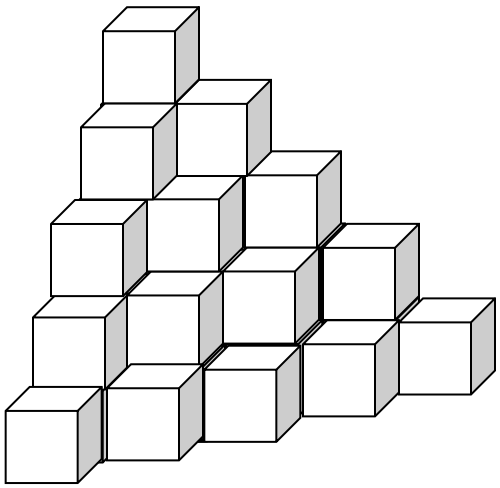
4. What is the 15th number of this addition sequence?
   8; 12; 16; 20; …

   (A) 48 (B) 54 (C) 64 (D) 60

5. Bunny was in the 33rd position of the queue. When the queue turned around she was in 24th in the queue.
   How many people were in the queue?
   (A) 60 (B) 58 (C) 57 (D) 56

6. Felicia placed biscuits in the oven at 09:40. It took 45 minutes to bake. At what time must the biscuits be removed from the oven?
   (A) 10:15 (B) 10:25 (C) 10:35 (D) 10:45

7. The total number of <u>cubes</u> in this arrangement is…



   (A) 24 (B) 30 (C) 35 (D) 42

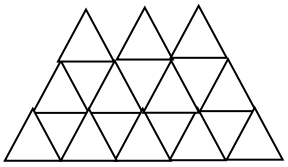
8. Carey removed $\frac{3}{4}$ of the water from a full tank of water. She then added 60 litres and still found the tank with three eighths of the water. What is the capacity of $\frac{1}{3}$ of the tank in litres?

   (A) 140 (B) 160 (C) 180 (D) 200

9. Determine the 3 digit number if: -
   - The ten's digit is 7 more than the unit's digit.
   - The number is divisible by 4.
   - The sum of the digits is 19.

   (A) 883 (B) 981 (C) 991 (D) 892

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



   (A) 35 (B) 33 (C) 31 (D) 29

11. In this subtraction problem, certain digits have been replaced by letters.
    What is the value of A + B?

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  A B A
- B 6 6
  1 5 8
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   (A) 11 (B) 10 (C) 9 (D) 6

12. A number and half of the number is 48. Find one quarter of the number.
    (A) 8 (B) 5 (C) 4 (D) 3

13. There are R1; R2 and R5 coins in the container. There are twice the number of R1 coins as R2 coins. There are twice as many R2 coins as there are R5 coins, When added together, the total amount was R520. How many R5 coins were there?

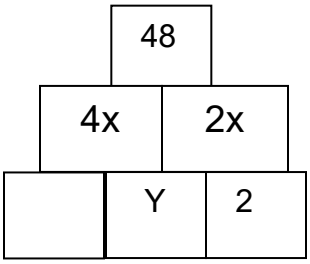
(A) 60 (B) 50 (C) 40 (D) 30

14. Consider the following pattern:
    1 + 3 = 4 = 2 x 2
    1 + 3 + 5 = 9 = 3 x 3
    1 + 3 + 5 + 7 = 16 = 4 x 4
    What is the sum of the first 25 odd numbers?

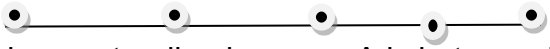
    (A) 625 (B) 576 (C) 529 (D) 484

15. At a unique netball tournament each team played every other team thrice. How many matches were played if there were 8 teams that participated?
    (A) 100 (B) 92 (C) 84 (D) 72

16. In the game below called "PYRAMATHS", the number on the left is halved and added to the number on the right to give the number in the box above. Find the number that should replace **Y**.



17. At a special event every 3rd learner was given 2 gifts. If 70 gifts were given, then what is the maximum number of learners that could have attended the event?

18. 
    Five people are standing in a row. A is between B and D and to the right of C. B is to the left of A. E is between C and D. E is to the right of A.C is between B and E.
    Write down the order of the 5 people from left to right.

19. A company made quadrangular tables with 4 legs and triangular tables with 3 legs There were 210 legs and 60 tables. How many triangular tables were made?

20. Viru made 2 digit numbers from 5 plastic digits. These digits are:
    6; 4; 7; 5 and 3 .How many 2 digit numbers are odd?

MARKS: 1-15: 15 X 1 = 15
16-20: 5 X 2 = 10
TOTAL: 25