SOUTHERN AFRICAN PRIMARY MATHEMATICS OLYMPIAD FEMSSISA

GRADE 4

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DATE: 15 – 19 AUGUST 2022

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 one 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.

GRADE FOUR

1. Find □ : □ - 32 = 48 - □

(A) 32 (B) 36 (C) 40 (D) 44

2. How many days are there from 10 January 2024 to 15 May 2024?

(A) 121 (B) 122 (C) 123 (D) 126

3. The cost of 1.5 litres of fruit juice is R36. What would you pay for 5 litres of juice at the same rate?

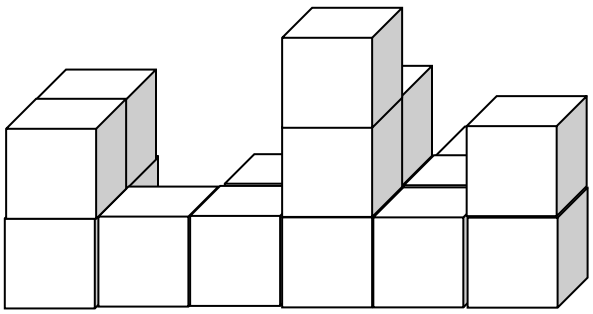
(A) R120 (B) R130 (C) R135 (D) R140

4. What is the 11^h number of this addition sequence?

9; 17; 25; 33; …

(A) 88 (B) 89 (C) 90 (D) 91

5. How many blocks were used to build this structure?



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

6. Andy placed a cake in the oven at 08:35. If it takes 1 hour 45 minutes to bake, then at what time should it be taken out of the oven?

(A) 10:25 (B) 10:20 (C) 10:35 (D) 10:40

7. After removing $\frac{1}{3}$ of the water from the tank there was still 16 litres of water in the tank. What is the capacity of the tank in litres when full?

(A) 33 (B) 30 (C) 27 (D) 24

8. Determine the 3 digit number if:-
   - The ten's digit 1 less than twice the unit's digit
   - The number is divisible by 2
   - The sum of the digits is 17.

(A) 674 (B) 278 (C) 449 (D) 575

9. Mary collected 10 more than twice the number of coins that Jamie collected. If both collected 205 coins, then what did Mary collect?

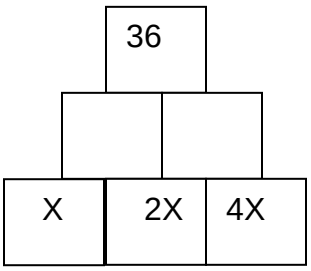
(A) 120 (B) 130 (C) 140 (D) 145

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 In this subtraction certain digits have been replaced by letters.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

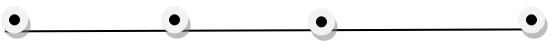
$$\begin{array}{r} A\ B\ A \\ \underline{B\ 6\ 8} \\ 1\ 7\ 8 \end{array}$$

(A) 12 (B) 11 (C) 10 (D) 9

11. In the game below called “PYRAMATHS’ the number on the right is halved and added to the number on the left to give the number in the box above. Find the number that should replace **X**.



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

12. 

Four houses A; B; C and D are on a straight road. House A is between D and B. C is between D and B. B is to the right of D. C is to the right of A. Write down the correct order of the letters from left to right.

(A) BACD (B) DACB (C) DCAB (D) BCAD

13. In a school there are 360 learners. There is $1\frac{1}{2}$ times less boys than girls. How many girls are there in the school?

(A) 144 (B) 188 (C) 216 (D) 240

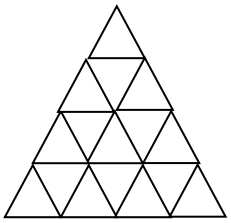
14. Emy had a secret number. Farah doubled this number. Gerald added 10 to this number. Hema found half of Gerald’s number. The final result was 40. What was Emy’s secret number?

(A) 35 (B) 40 (C) 45 (D) 50

15. If the sum of the dates from Sunday to Thursday is 40 then what is the date of the 3rd Tuesday of the month?

(A) 14th (B) 15th (C) 16th (D) 17th

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



17. An equal number of R2; R5 and R1 coins were in the container. When added the total amount was R200. How many R2 coins were there?

18. Study the following problem. Do you know what © is doing to the 2 numbers?

6 © 2 = 2; 10 © 4 = 3; 11 © 1 = 5

After you have discovered what © does then find the answer to: 14 © 2

19. A company made triangular tables with 3 legs and hexagonal tables with 6 legs. There were 120 legs and 30 tables. How many triangular tables were made?

20. The IPL had 8 teams. Each team played every other team twice. Three matches were played every two days starting from day one.
How many days did these two round fixtures (where every team plays each other twice) take?

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