SOUTHERN AFRICAN PRIMARY MATHEMATICS OLYMPIAD FEMSSISA

GRADE 5

E-mail : Info@saolympiads .co.za website: www.saolympiads.co.za

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 websites: www.saolympiads.co.za.

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GRADE FIVE

1. Evaluate: 20 - 4 x 3

   (A) 5 (B) 6 (C) 7 (D) 8

2. Determine ☐: such that: (36 - ☐) x 5 = 45

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

3. If 44 x ☐ = 50 then 22 x ☐ =

   (A) 25 (B) 30 (C) 20 (D) 15

4. The sum of the dates from Monday to Wednesday is 51. What is the date of the 4th Thursday of the month?

   (A) 24th (B) 25th (C) 26th (D) 27th

5. How many days are there from 10 January 2022 to 10 April 2022?

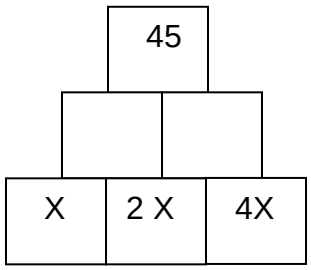
   (A) 91 (B) 90 (C) 89 (D) 88

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 In this subtraction problem, certain digits have been replaced by letters.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

$$\begin{array}{r} A\ A\ A \\ -\quad B\ 9 \\ \hline 6\ B\ B \end{array}$$

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

7. In the game below called “PYRAMATHS’ the number on the left is doubled and added to half the number on the right to give the number in the box above it. Find the number that should replace X.



(A) 5 (B) 6 (C) 7 (D) 8

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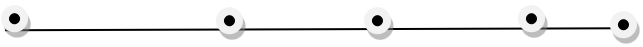
8. 

Five houses A; B; C; D and E are on a straight road. E is between D and B. B is between E and C. D is to the left of B. A is between E and B
Name the letters which represent houses from left to right and the correct order?

(A) DAEBC (B) DEABC (C) EDABC (D) ADEBC

9. What is the maximum number of 350 ml bottles of medicine that can be filled from a 5000ml container of medicine?

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

10. If $\frac{2}{3}$ of my money is R1200 then how much is $\frac{1}{4}$ money do I have?

(A) R300 (B) R350 (C) R400 (D) R450

11. An equal number of R2; R1 and R5 coins were obtained from a R280 notes. How many R5 coins were obtained?

(A) 35 (B) 34 (C) 33 (D) 32

12. A rectangular garden measures 200 metres all round. If the length is 10 metres more than twice its width, then find the width in metres.

(A) 35 (B) 30 (C) 25 (D) 20

13. After a discount of $\frac{1}{3}$ of the price, an item was sold for R400. What was the price of the item before discount?

(A) R840 (B) R720 (C) R600 (D) R480

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

4@2 = 7 4@6=10 6@8 = 13

After you have discovered what (@) is doing then find the answer to: 10@4
(A) 12 (B) 14 (C) 16 (D) 18

15. Naz said that if he was 6 years older, she will be twice the age of Lily. Their combined ages is 39. What is Lily's age?

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

16. When Lucky added two numbers he had 75. When he subtracted the same two numbers he had 15. What is the product of these 2 numbers?

17. Cindy does grocery shopping every 8 days and her laundry every 3 days. On 1 March she did her grocery shopping and laundry. On which next date in March will she do both chores?

18. Lee collected $\frac{1}{2}$ the number of coins that Mack collected. Mack collected one and half times ($1\frac{1}{2}$) the number of coins collected by Nellie. If all three collected 390 coins then how many coins did Nellie collect?

19. A container is $\frac{3}{4}$ full of water. When 15 litres are removed then it is $\frac{2}{3}$ full. What is the capacity in litres of the container when full?

20. Colour stones green (G) and white (W) were used to make a Pendant with the last 2 stones being white. The stones were arranged as follows:-

G W W G G W W G G G W W G G G G W W .....

The pendant has 55 green stones.
How many white stones does it have?

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