South African Foundation Phase Mathematics Olympiad: Grade 1 - 3

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MATHEMATICS GRADE TWO OLYMPIAD

DATE: 12 AUGUST 2024 – 16 AUGUST 2024

TIME: 75 MINUTES

INSTRUCTIONS:

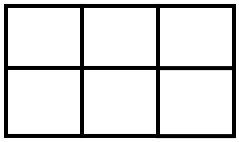
1. This booklet has 12 multiple choice questions and 3 open ended questions.
2. Use the answer sheet provided.

   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 10 problems carry 1 mark each and the next 5 carry 2 marks each.
7. You have 75 minutes for the paper which works out to an average of 5 minutes per question.
8. Read the questions carefully before answering. Do not rush.
9. Your teacher will read the questions to you.
10. Visit the websites: www.saolympiads.co.za.

ENJOY THE OLYMPIAD.

GRADE TWO

1. Count the number of squares of all sizes in this arrangement:



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

2. Find the value of ☐ :

40 + 20 = ☐ + 24

(A) 32 (B) 34 (C) 36

3. Find $\frac{1}{4}$ of 20 + $\frac{1}{4}$ of 12:

(A) 8 (B) 10 (C) 12

4. Senzo counted in 2's as follows from 10:
10; 12; 14; 16;….

Determine the 20th term of the above pattern?

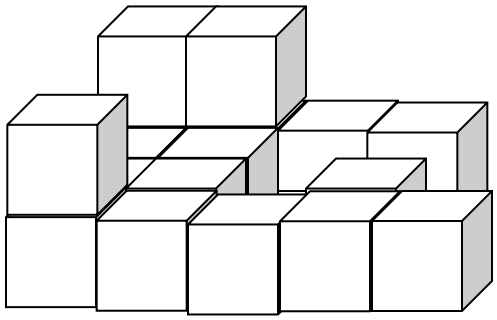
(A) 44 (B) 46 (C) 48

5. Write down the value of ☐ in the following addition problem:

$$\begin{array}{r} \square\,\square \\ +\ \square\,\square \\ \hline 4 \\ \hline 1\ 3\ 6 \end{array}$$

(A) 2 (B) 6 (C) 8

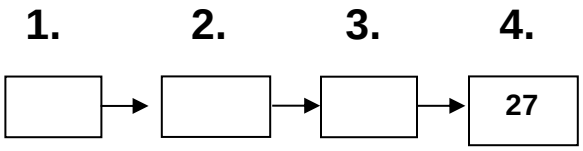
6. How many blocks are there in this stack?



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

7. Links and Chains

Double the number and subtract 3 each time to move from one block to the other. Which number is in block 1?



(A) 4 (B) 5 (C) 6

8. Fairy had 3 teaspoons of 10 ml of medicine each day. After 4 days how much of medicine in ml is left in the 200 ml container?

(A) 100 (B) 80 (C) 70

9. In the game below no letter must appear more than once in a row, column or 2 by 2 block (shaded). Use only P; E; R and O.

What letter would be at 2?

	R		
			2
	O		P
R			

(A) R (B) E (C) O

10. Stairs are numbered from 1 to 20. Shireen was on a certain stair. She climbed up 5 stairs and then went down 8 stairs. She climbed up 3 stairs and found herself on step 8.
On which step did she start?

(A) 10 (B) 9 (C) 8

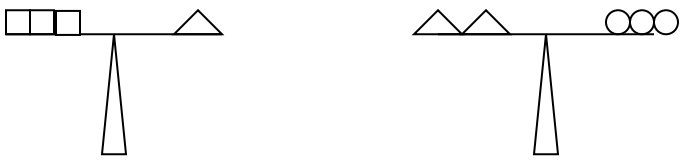
11. Study the following problem. Do you know what # is doing to the two numbers?

5 # 3 = 7 6 # 3 = 9
4 # 1 = 7 7 # 4 = 10

Find the value of: 5 # 2

(A) 8 (B) 9 (C) 10

12. The following is in balance.



How many squares will 1 circle balance?

(A) 2 (B) 4 (C) 3

13. 3 more than ¼ of the sweets is 11.
How many sweets are there?

14. The sum of 3 different numbers is 45. Each number is 5 less than the previous number. What is the largest number?

15. Amy is 2 years younger than Bash.
Bash is twice as old as Candice.
Candice is 10 years old. What is Amy's age?

END