



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

**FEMSSISA NATIONAL FOUNDATION PHASE MATHEMATICS
OLYMPIAD
GRADE THREE
FINAL ROUND PAPER: 2017
QUESTION BOOKLET**

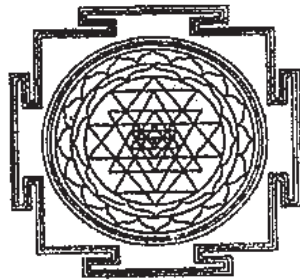
**DURATION: 1 HOUR 15 MINUTES
MARKS: 20**

**TIME: 08:30 -09:45
DATE: 12 October 2017**

INSTRUCTIONS TO LEARNERS:

1. You are expected to answer 15 questions.
2. Use the answer booklet for your answers.
3. Use the space provided for your working.
4. You are not allowed to use the calculator.
5. Read the question carefully before answering. Don't rush.
6. Your teacher will read the question to you.
7. First 10 questions – 1 mark each.
8. Questions 11-15: 2 marks each.
9. Write your name in block letters.

ENJOY THE OLYMPIAD



SAASTA
South African Agency for Science
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GRADE THREE

1. What is the 10th number of this addition sequence?
7 ; 13 ; 19 ; 25 ; ...

2. Verone counted in 6's as follows:-
6 ; 12 ; 18 ; 24 ; ...
She stopped at the 20th number.
What number did she count last ?

3. Find the value of \square

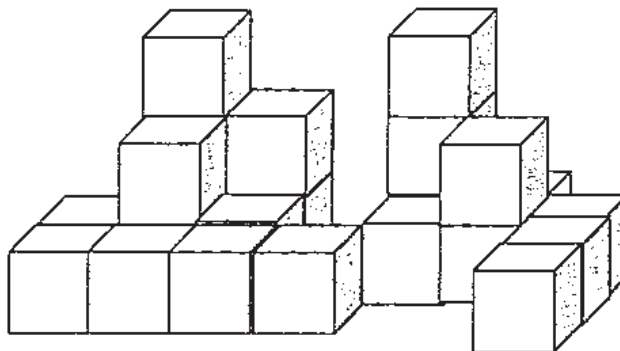
$$\square + \square + \square - \triangle = 48 - \triangle + \square + \square$$

4. Each letter in the following subtraction problem represents a digit.
What is the value of $A + B + C$?

$$\begin{array}{r} 690 \\ - \underline{ABC} \\ \hline \underline{ABC} \end{array}$$

5. Enver donated $\frac{1}{4}$ of his money. He still had R360.
What is $\frac{1}{3}$ of his money?

6. How many blocks are there in this stack ?



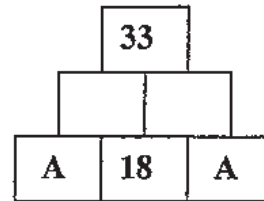
7. The number 1357 has been repeated a number of times as follows:-

135713571357135713571357.....

Write down the 45th number from the left.

8. Hardy bought an item. He sold it for R30 more. It was then sold for R15 less. The final price was R90. What was the price Hardy paid for the item?

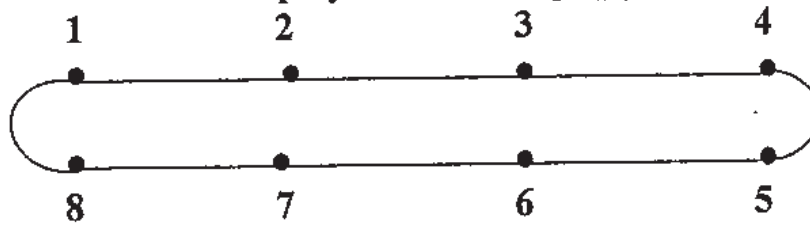
9. In the game called Pyramaths the number in the left box is halved and added to the number on the right to give the number in the box above it.



Find A

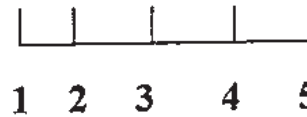
10. Guess the number I stand for:-
- * I am a 3 digit number.
 - * My unit's digit is 3 less than my ten's digit.
 - * My hundred's digit is 1 less than ten's digit.
 - * The sum of my digits is 20.
11. Page counted in 2's from 6 to 48.
Len counted in 3's from 3 to 45.
How many numbers were counted once?
12. What is the answer to:-
 $60 - 55 + 50 - 45 + \dots + 10 - 5$?

13. The player 1 was standing at 8; 2 opposite 7; 3 opposite 6 and so on. If there are 40 players arranged in this fashion then determine which player is standing opposite 15?



14. 5 people are sitting next to each other on a straight table.

- B is between C and E.
- D is next to B and to the right of B.
- B is between E and D.
- C is between D and A.



Write down the correct letters for 1;2;3;4;5

15. Three triangles balance two circles. Four circles balance 3 squares.

How many triangles does 1 square balance?



END