



science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA

**NATIONAL FOUNDATION PHASE MATHEMATICS  
OLYMPIAD  
GRADE ONE  
ENGLISH  
2019**

**ROUND ONE QUESTION BOOKLET**

**DURATION: 1 HOUR 15 MINUTES**

**TIME: 08:30 -09:45**

**MARKS: 20**

**DATES: 29 JULY-2 AUGUST 2019**

**NAME OF LEARNER: \_\_\_\_\_**

**NAME OF SCHOOL: \_\_\_\_\_**

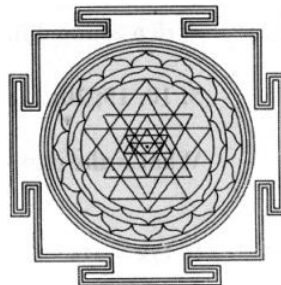
**INSTRUCTIONS TO LEARNERS:**

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- 2. These are multiple choice questions. Circle the correct answer.**
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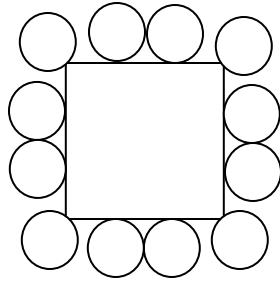
**ENJOY THE OLYMPIAD**



**NON PROFIT COMPANY  
REGISTRATION NO: 2015/050119/08**



1. Count the number of circles in this arrangement.



- (A) 10            (B) 12            (C) 14
2. Which number is 8 more than 15 ?  
23; 21; 19  
(A) 19            (B) 21            (C) 23
3. Which number is out of order ?  
7; 11; 9; 13  
(A) 11            (B) 7            (C) 13
4. Give the value of  $\square$  in this addition problem.

$$\begin{array}{r} 29 \\ + 5\square \\ \hline 83 \end{array}$$

- (A) 2            (B) 4            (C) 6
5. Give the next number in this pattern (adding 6)  
10;16; 22; 28 ; 34 ;.....  
(A) 40            (B) 46            (C) 52
6. Find the value of  $\square$   
 $27 + 3 + 8 = 31 + \square$   
(A) 5            (B) 6            (C) 7

7. Look at this pretty square

5	7	9	11
19	17°	15	13
21	23	25	27
35	33	31	29

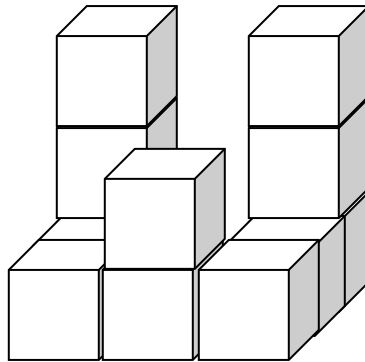
A coin was placed at 17 .

It was moved one(1) place to the right; two(2)places down; two(2) places to the left and 1 place up.

On which numbered square is the coin now on?

(A) 21            (B) 23            (C) 25

8. How many blocks are there in this stack ?



(A) 16            (B) 14            (C) 12

9. Halve the number ' 18 ' and add '4' to the answer . What will the number now be ?

(A) 11            (B) 13            (C) 15

10. You are given 4 plastic digits 6;3;2; 8

What is the largest 3 digit number that can be made?

(A) 836            (B) 863            (C) 862

11. Petra gave 8 oranges to her friends. She then gave  $\frac{1}{2}$  of what was left to another group of friends. She still had 11 oranges left.

How many oranges did Petra start off with ?

(A) 28            (B) 29            (C) 30

12. Rosy gave her plants 50 grams of plant feed per day. She had 600 grams of plant feed. How many days can Rosy use the plant feed?

- (A) 12      (B) 14      (C) 16

13. Sarah saw the time on the clock. What was the time be 8 hours ago?



- (A) 11 o' clock      (B) 10 o' clock      (C) 9 o' clock

14. This game is called Links and Chains

1

2

3




The number in block one is doubled and 1 added to it to give the number in block 2. The number in block 2 is doubled and 1 added to it to give in the number in block 3. What is the number in block 1?

- (A) 7      (B) 5      (C) 3

15.




A; B and C are envelopes which have secret numbers. The number in A is double the number in B. The number in C is 3 times the number in B. The sum of all 3 numbers is 48.

What number is in envelope B?

- (A) 8      (B) 12      (C) 16

MARKS: 1-10:  $10 \times 1 = 10$

11-15:  $5 \times 2 = 10$

TOTAL : 20



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**NATIONAL FOUNDATION PHASE MATHEMATICS  
OLYMPIAD  
GRADE TWO  
ENGLISH  
2019**

**ROUND ONE QUESTION BOOKLET**

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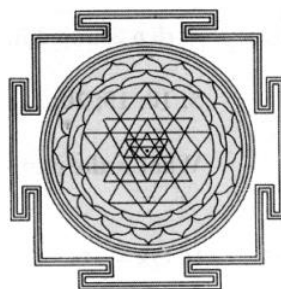
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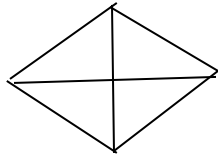
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**NON PROFIT COMPANY  
REGISTRATION NO: 2015/050119/08**



1. Count the number of triangles in this arrangement:



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

2. Find the value of   
 $60 - 45 = 35 - \square$

- (A) 10                      (B) 15                      (C) 20

3. Find  $\frac{1}{2}$  of 10 +  $\frac{1}{4}$  of 20

- (A) 5                      (B) 10                      (C) 15

4. Half of 18 equals:

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

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

$$\begin{array}{r} \square \quad \square \\ + 6 \quad 4 \\ \hline 1 \quad 5 \quad 2 \end{array}$$

- (A) 8                      (B) 6                      (C) 4

6. After giving 45 health cakes to her friends in Grade 2F and 36 to her friends in Grade 2H she still had 15 left. How many did she start off with?

- (A) 96                      (B) 80                      (C) 64

7. Write down the value of  $\square$  in the subtraction problem:

$$\begin{array}{r} 76 \\ - 2\square \\ \hline 48 \end{array}$$

- (A) 6                      (B) 7                      (C) 8

8. There are 24 numbered blocks below:-

2	4	6	8	10	12
24	22	20	18	16	14
26	28	30	32	34	36
48	46	44	42	40 <sup>d</sup>	38

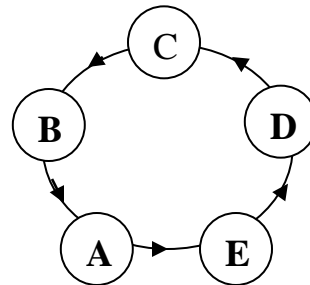
*d* is a disc at 40. It moves 2 blocks left, 3 blocks upwards;  
2 blocks left and 2 blocks to the down.

On which block is *d* now on ?

- (A) 26                      (B) 48                      (C) 28

9.

Ms rabbit moves from one lettered hutch to another starting at A; to E to D and so on in an anticlockwise direction.

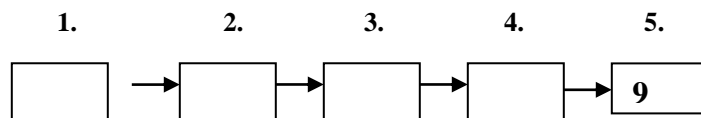


Ms Rabbit visited 83 hutches. Count A as 1.  
On which lettered hutch did Ms Rabbit end up in?

- (A) E                      (B) D                      (C) C

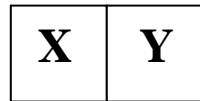
10. Links and Chains

Halve the number and add 4 each time to move from one block to the other. Which number is in block 1?:-



- (A) 16                      (B) 20                      (C) 24

11. Find the mystery number.



\*I am a 2 digit number.

\*  $X + Y + Y = 19$

\*  $X - Y = 1$

- (A) 67                      (B) 76                      (C) 87

12. After giving 12 of her discs to Pansy and Sipho, Tembi still had  $\frac{3}{4}$  of her discs.

How many did Tembi start off with ?

- (A) 36                      (B) 48                      (C) 60

13. Who is the tallest ?

Apex is taller than Carey.

Apex is shorter than Dainty.

- (A) Apex                      (B) Dainty                      (C) Carey

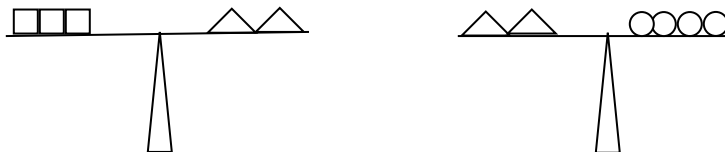
14. Sandy has R25 less than Randy.

Randy has R35 more than Kandy.

How much does Kandy have if Sandy and Randy have R175 ?

- (A) R75                      (B) R40                      (C) R25

15. The following is in balance.



How many circles are balanced by 6 squares ?

- (A) 4                      (B) 6                      (C) 8

MARKS: 1-10:  $10 \times 1 = 10$

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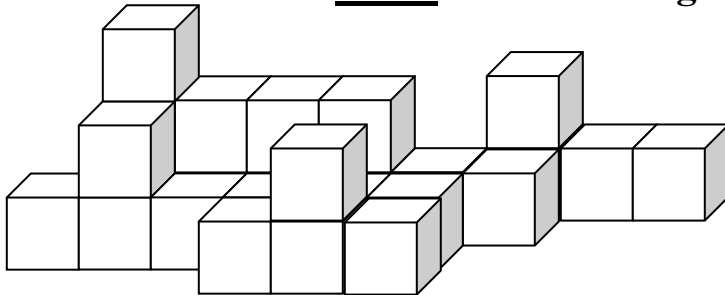
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**NON PROFIT COMPANY  
REGISTRATION NO: 2015/050119/08**



1. Find the value of  $\square$  to make this sentence true.  
 $60 + \square = 24 + \square + \square + \square$   
 (A) 14            (B) 16            (C) 18
2. My cellphone number is 0829444205  
 The sum of the digits of my cellphone number is...  
 (A) 38            (B) 39            (C) 40
3. Write down the 9<sup>th</sup> number of this addition pattern:-  
 5; 12; 19; 26;...  
 (A) 47            (B) 54            (C) 61
4. Karima counted in 6's as follows from 12:-  
 12; 18; 24; 30;....  
 She stopped at the 20<sup>th</sup> number.  
 What number did she count last ?  
 (A) 126            (B) 132            (C) 138
5. What is the 9<sup>th</sup> number of this pattern?  
 4; 4; 8; 12; 20; 32; ...  
 (A) 130            (B) 136            (C) 142
6. Ronald needs R280 to buy the football. He had  
 one R100 note and two R50 notes and five R5 coins.  
 How much more does he need to buy this football?  
 (A) R45            (B) R50            (C) R55
7. Cher has R400. She needs R800. Each day she receives R24.  
 On which day will she reach the target?  
 (A) 15            (B) 17            (C) 19
8. The total number of cubes in this arrangement is...

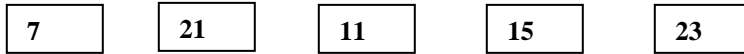


- (A) 27            (B) 26            (C) 25

9. If  $88 \times \square = 600$  then what is  
 $22 \times \square$

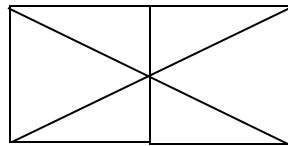
- (A) 210      (B) 180      (C) 150

10. Enver added three card numbers at a time. How many answers were more than 45?



- (A) 3      (B) 4      (C) 5

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



- (A) 8      (B) 10      (C) 12

12. **Barnie collected R40 less than Amos.  
Corrie collected R20 more than Daisy.  
Barnie collected R60 more than Corrie.  
Who collected the least amount?**

- (A) **Barnie**    (B) **Corrie**    (C) **Daisy**

13. In the game below no letter must appear more than once in a row , column or 2 by 2 block(shaded).  
Use only R; E; A and D.  
What letter would be at 2 ?

		A	
	2		
E			D
	R	E	

- (A) A (B) E (C) D

14. Guess the number I stand for:-  
\* I am a 3 digit number.  
\* My ten's digit is 1 more than twice my hundred's digit.  
\* The sum of my digits is 12.  
\* My unit's digit is 1 less than 3 times my ten's digit.  
(A) 372 (B) 327 (C) 732

15. B collected  $\frac{1}{2}$  the money that A collected.  
B and C collected R225.  
collected.  
Together A;B and C R525.  
How much money did B collect?  
(A) R250 (B) R200 (C) R150

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