

science & technology

Department: Science and Technology
REPUBLIC OF SOUTH AFRICA

**NATIONAL FOUNDATION PHASE MATHEMATICS
OLYMPIAD
GRADE ONE
ENGLISH
2018**

ROUND ONE QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

TIME: 08:30 -09:45

MARKS: 20

DATES: 30JULY-3 AUGUST 2018

NAME OF LEARNER: _____

NAME OF SCHOOL: _____

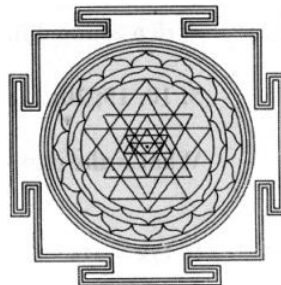
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7. First 10 questions – 1 mark each.
8. Questions 11-15: 2 marks each.

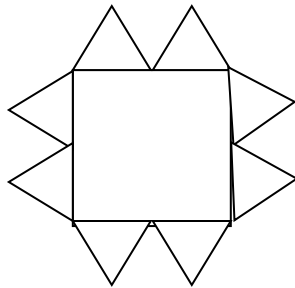
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**NON PROFIT COMPANY
REGISTRATION NO: 2015/050119/08**



1. Count the number of triangles in this arrangement.



- (A) 12 (B) 10 (C) 8
2. Which number is 7 less than 20 ?
12; 13; 14

- (A) 12 (B) 13 (C) 14

3. Which number is out of order ?
8; 10; 14; 12

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

4. Give the value of in this addition problem.

$$\begin{array}{r} 36 \\ + 3\Box \\ \hline 71 \\ \hline \end{array}$$

- (A) 5 (B) 6 (C) 7
5. Give the next number in this pattern (adding 3)
12;15; 18; 21 ; 24 ;.....

- (A) 26 (B) 27 (C) 28

6. Find the value of

$$35 + 9 = 40 + \Box$$

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

7. Look at this pretty square

36	34	32	30
28	26	24	22
20	18	16	14
12	10	8 ^o	6

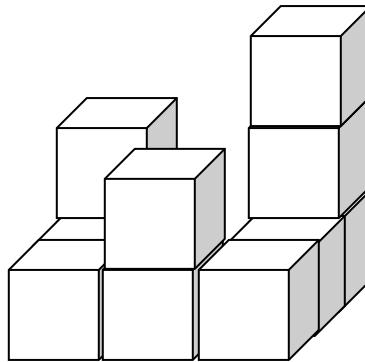
A coin was placed at 8 .

It was moved two(2) places to the left; three(3)places up; one(1) place to the right and 2 places down.

On which numbered square is the coin now on?

- (A) 18 (B) 24 (C) 26

8. How many blocks are there in this stack ?



- (A) 9 (B) 10 (C) 11

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) 862 (C) 863

11. Liza gave $\frac{1}{2}$ the number of apples to her friends. She then gave 12 apples of what was left to another group of friends. She still had 10 apples left.

How many apples did Liza start off with ?

- (A) 40 (B) 44 (C) 48

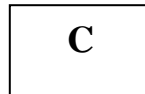
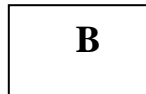
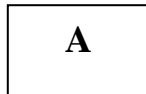
12. Jerrico had to take 15ml of medicine per day.
He has a 100ml bottle of medicine. How many days can Jerrico take this medicine?
(A) 6 (B) 8 (C) 9
13. Fred saw the time on the clock.
What will the time be 10 hours from now?



- (A) 11 o' clock (B) 12 o' clock (C) 1 o' clock

14. If $465 + 275 = 740$ then what is the answer to
 $455 + 295$
(A) 780 (B) 760 (C) 750

15.



On the opposite side of each card there is a number.
The number on card A is half the number on card B.
The number on card B is 6 more than the number on card C
When all the numbers are added the answer is 34 . What
number is on card A?

- (A) 10 (B) 16 (C) 36

MARKS: 1-10: $10 \times 1 = 10$
11-15: $5 \times 2 = 10$

TOTAL : 20



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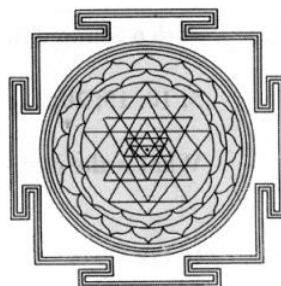
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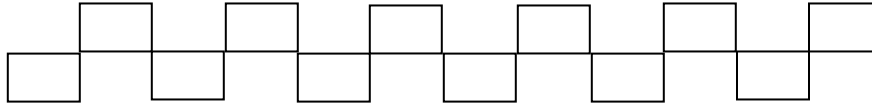
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REGISTRATION NO: 2015/050119/08**



1. Count the number of rectangles in this arrangement:



- (A) 11 (B) 12 (C) 13

2. Find the value of

$$74 + 31 = 110 - \square$$

- (A) 3 (B) 4 (C) 5

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

- (A) 14 (B) 15 (C) 16

4. Half of 44 equals:

- (A) 26 (B) 24 (C) 22

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

$$\begin{array}{r} \square \square \\ + 37 \\ \hline 125 \end{array}$$

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

6. After giving 32 health cakes to her friends in Grade 2A and 24 to her friends in Grade 2B she still had 14 left. How many did she start off with?

- (A) 80 (B) 70 (C) 60

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

$$\begin{array}{r} \square 4 \\ - 49 \\ \hline 25 \end{array}$$

- (A) 7 (B) 6 (C) 5

8. There are 24 numbered blocks below:-

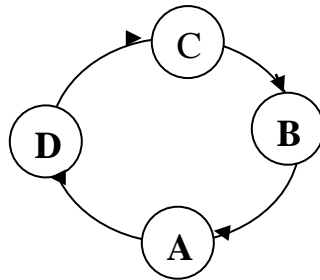
1	3	5	^d 7	9	11
13	15	17	19	21	23
25	27	29	31	33	35
37	39	41	43	45	47

d moves 3 block downwards, 2 blocks to the left; 2 blocks upwards and 4 blocks to the right

On which block is *d* now on ?

- (A) 21 (B) 23 (C) 33

9.

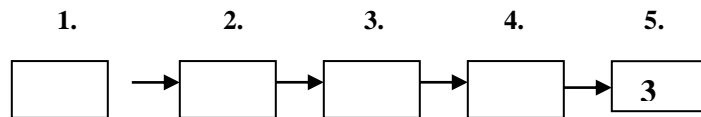


Rambler moves from one lettered circle to the other starting from A to B to C to D and so on. He visited 47 circles. On which lettered circle did Rambler land on?

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

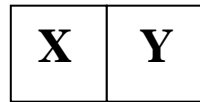
10. Links and Chains

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



- (A) 3 (B) 6 (C) 9

11. Find the mystery number.



*I am a 2 digit number.

* $X + X + Y = 18$.

* $X + Y = 11$

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

12. After giving 48 of her gem stones to Terry, Romy and Pam; Rosy still had $\frac{1}{4}$ of her gem stones.

How much did Rosy start off with ?

- (A) 56 (B) 64 (C) 72

13. Who is the shortest ?

Amy is taller than Cody.

Bunny is shorter than Daisy.

Amy is shorter than Bunny.

- (A) Bunny (B) Amy (C) Cody

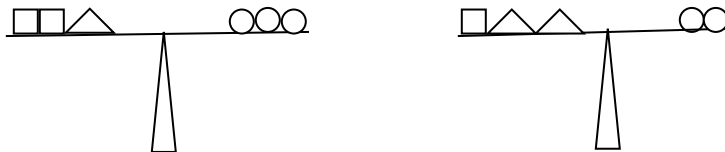
14. Enver has R60 more than Farah.

Enver has R70 less than Jones.

How much does Jones have if all 3 have R400 ?

- (A) R200 (B) R180 (C) R160

15. The following is in balance.



How many triangles are needed to balance 1 square ?

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

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

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

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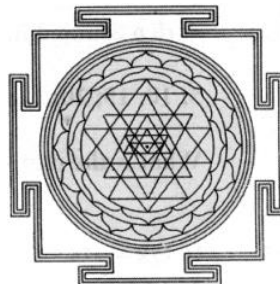
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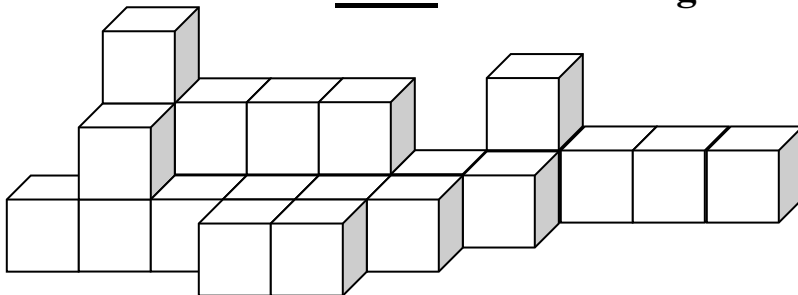


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1. Find the value of \square to make this sentence true.
 $40 + \square + \square + \square = 76 + \square$
 (A) 16 (B) 18 (C) 20
2. My cellphone number is 0786592430
 The sum of the digits of my cellphone number is...
 (A) 44 (B) 45 (C) 46
3. Write down the 11th number of this addition pattern:-
 16; 22; 28; 34;...
 (A) 66 (B) 72 (C) 76
4. Heather counted in 4's as follows from 15:-
 15; 19; 23; 27;....
 She stopped at the 30th number.
 What number did she count last ?
 (A) 123 (B) 127 (C) 131
5. What is the 8th number of this pattern?
 2; 2; 4; 6; 10; 16; ...
 (A) 42 (B) 56 (C) 62
6. Siphon needs R480 to buy the science kit. He had
 one R100 note and three R50 notes and three R10 notes.
 How much more does he need to buy this science kit?
 (A) R100 (B) R150 (C) R200
7. Cheryl has R240. She needs R500. Each day she receives R15.
 On which day will she reach the target?
 (A) 16 (B) 18 (C) 20

8. The total number of cubes in this arrangement is...

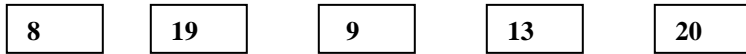


- (A) 24 (B) 25 (C) 26

9. If $33 \times \square = 120$ then what is
 $99 \times \square$

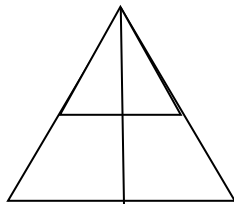
- (A) 360 (B) 390 (C) 420

10. Terry added three card numbers at a time. How many answers were more than 40?



- (A) 5 (B) 6 (C) 7

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



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

12. Jakes collected R140 more than Lindy.
Mandy collected R120 less than Nellie.
Nellie collected R100 more than Jakes.
The total collected by all was R1000 ?
What did Lindy collect?

- (A) R245 (B) R125 (C) R100

13. In the game below no letter must appear more than once in a row , column or 2 by 2 block(shaded).
Use only S; E; A and T.
What letter would be at 3 ?

E			
			S
	2	A	

- (A) S (B) E (C) T

14. Guess the number I stand for:-
* I am a 3 digit number.
* My hundred's digit is 2 less than twice my ten's digit.
* The sum of my digits is 17.
* My ten's digit is 3 less than my unit's digit.
(A) 647 (B) 269 (C) 836
15. B collected $\frac{1}{2}$ the money that A and C collected. A collected $\frac{1}{4}$ the money that C and B collected. Together A;B and C R1200.
How much money did B collect?
(A) R240 (B) R400 (C) R560

MARKS: 1-10: 10 x 1 = 10
11-15: 5 x 2 = 10

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