



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

FEMSSISA
NATIONAL FOUNDATION PHASE MATHEMATICS
OLYMPIAD
GRADE ONE
ENGLISH
2017

ROUND ONE QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

TIME: 08:30 -09:45

MARKS: 20

DATES: 7-10 AUGUST 2017

NAME OF LEARNER: _____

NAME OF SCHOOL: _____

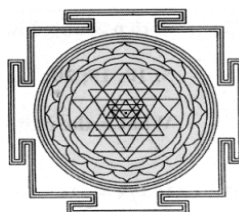
INSTRUCTIONS TO LEARNERS:

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- 4. You are not allowed to use the calculator.**
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- 7. First 10 questions – 1 mark each.**
- 8. Questions 11-15: 2 marks each.**

ENJOY THE OLYMPIAD

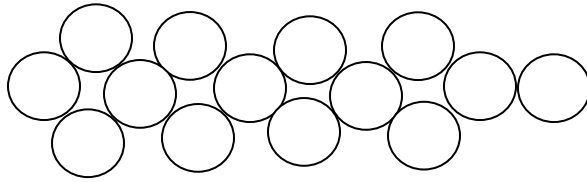


NON PROFIT MAKING COMPANY
REGISTRATION NO: 2015/050119/08



GRADE ONE 2017

1. Count the number of circles in this arrangement.



- (A) 13 (B) 14 (C) 15

2. Which number is the largest?

35; 46; 39; 45

- (A) 46 (B) 39 (C) 45

3. Which number is out of order?

11; 13; 17; 15

- (A) 11 (B) 13 (C) 17

4. Give the value of in this addition problem.

$$\begin{array}{r} 46 \\ + 4\boxed{} \\ \hline 90 \\ \hline \end{array}$$

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

5. Give the next number in this pattern(adding 3)

7;10; 13; 16 ;.....

- (A) 17 (B) 18 (C) 19

6. Find the value of

$$43 + \square = 39 + 11$$

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

7. Look at this pretty square

1	3	5	7
9	11	13	15
17	19	21	23 [•]
25	27	29	31

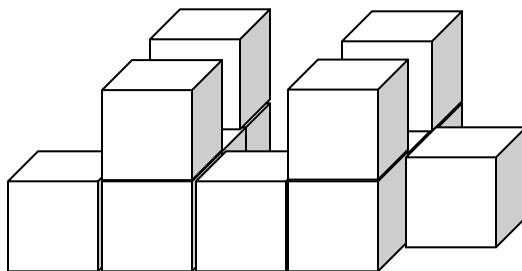
A coin was placed at 23.

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

On which numbered square is the coin ?

- (A) 19 (B) 21 (C) 29

8. How many blocks are there in this stack ?



- (A) 13 (B) 14 (C) 15

9. Double the number '12' and take away '2' from the answer . What will the number now be ?

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

10. You are given 4 plastic numbers 5;7;2;6

What is the largest 2 digit number that can be made?

- (A) 72 (B) 75 (C) 76

11. Larry gave 12 marbles to Vilakazi .He gave half of what was left to Mandy. He still had 8 marbles left.
How many marbles did Larry start off with ?
(A) 28 (B) 26 (C) 24
12. Tim had to take 5ml of medicine 3 times a day,
He took this medicine for 5 days.
How much medicine was in the 100 ml bottle after 5 days?
(A) 5ml (B) 15 ml (C) 25ml
13. This is the time on the clock.
What will the time be in 11 hours from now?



- (A) 2 o' clock (B) 3 o' clock (C) 4 o' clock
14. If $68 - 29 = 39$ then what is the answer to
 $88 - 29$
(A) 39 (B) 49 (C) 59
- 15.

A

B

C

In each box there is a number card.

The number in box C is half the number in box B. The number in box A is half the number in box C.

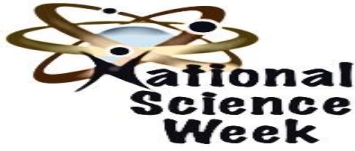
When all the numbers are added the answer is 77. What number is on box C?

- (A) 33 (B) 22 (C) 11

MARKS: 1-10: 10

11-15: 5x2 = 10

TOTAL: 20



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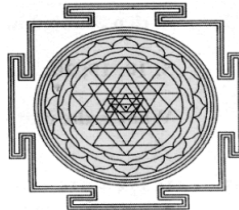
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GRADE TWO 2017

1. Write down the next number in this pattern(adding 6)
5; 11; 17; 23;

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

2. Find the value of

$$59 - \square = 48 - 30$$

(A) 37 (B) 39 (C) 41

3. Find $\frac{1}{2}$ of 60 + $\frac{1}{4}$ of 16.

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

4. Treble 16 equals:

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

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

$$\begin{array}{r} 5 \square \\ + 58 \\ \hline 110 \end{array}$$

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

6. The teacher gave 29 apples to the learners in Grade 2A , 34 apples to the learners in Grade 2C and the remainder to Grade 2B. She gave 93 apples to all 3 classes. How many did she give to Grade 2B ?

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

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

$$\begin{array}{r} 64 \\ - \square 8 \\ \hline 26 \end{array}$$

- (A) 3 (B) 4 (C) 5
8. There are 28 numbered blocks below:-

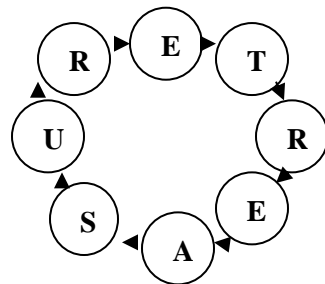
1	3	5	7	9	11	13
15	17	19	21	23	25	27
29	31	33	35	37	39	41
43	45	47	49	51	53	57
59	61 ^t	63	65	67	69	71

t moves 3 blocks up, 4 blocks to the right ; 3 blocks down and 1 block to the right.

On which block is t now on ?

- (A) 41 (B) 57 (C) 71

9.



Donald Duck was on disc T. He hopped on every disc R; E;A and so on (in a clockwise direction)

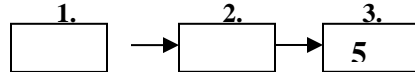
He landed on 60 discs. Count the first disc as well.

On which disc number was Donald Duck when he landed on the 60th disc?

- (A) E (B) A (C) R

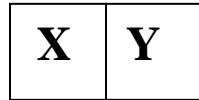
10. **Links and Chains**

Halve the number and subtract 6 each time to move from one block to the other. Which number is in block 1?:-



- (A) 56 (B) 44 (C) 22

11. **Find the mystery number.**



***This is a 2 digit number.**

*** $X + Y = 9$**

*** $Y - X = 5$**

- (A) 25 (B) 27 (C) 29

12. **After giving 48 of his sweets Sipho still had $\frac{1}{4}$ of his sweets. How many sweets did Sipho start off with ?**

- (A) 52 (B) 58 (C) 64

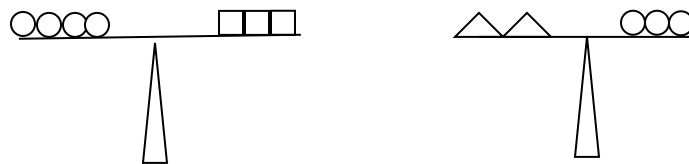
13. **Candy had 5ml of syrup on Day One. Each day after she had 5ml more until the syrup was finished. If there was 105ml of syrup in the bottle then how many days did it take to finish the syrup?**

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

14. **Emmie is 5cm taller than Seke. Seke is 10cm shorter than Goldi. Who is the tallest?**

- (A) Seke (B) Emmie (C) Goldi

15. **The following is in balance.**



How many \triangle s can be balanced by 9 \square s
(A) 8 (B) 10 (C) 12

MARKS: 1-10 : 10 X 1 = 10

11-15: 5 X 2 = 10

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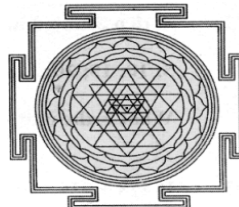
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GRADE THREE 2017

1. Find the value of \square to make this sentence true.

$$58 - \square - \square = 32$$

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

2. My cellphone number is 0792627119.

The sum of the digits of my cellphone number is...

- (A) 44 (B) 45 (C) 46

3. Write down the sum of the digits of the 19th term of this pattern (counting in 9's):-

9; 18; 27; 36;...

- (A) 27 (B) 18 (C) 9

4. Esther counted in 6's as follows from 10:-

10; 16; 22; 28;....

She stopped at the 30th number.

What number did he count last ?

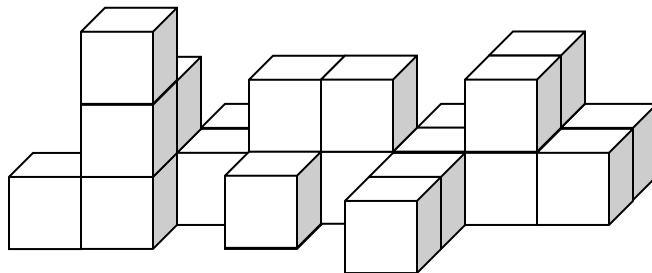
- (A) 174 (B) 184 (C) 194

5. If $15 \times \square = 13$ then what is

$$30 \times \square = ?$$

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

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



- (A) 24 (B) 23 (C) 22

7. What is the value of $\square + \triangle$ in the following addition problem?

$$\begin{array}{r}
 \square \quad \triangle \\
 \square \quad \triangle \\
 \square \quad \triangle \\
 \hline
 1 \quad 2 \quad 6
 \end{array}$$

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

8. If 6 donuts cost R25.49 then what will 12 such donuts cost at the same rate?

- (A) R49.98 (B) R50.49 (C) R50.98

9. In the game below no letter must appear more than once in a row , column or 2 by 2 block(shaded).

Use only A; C; D and R.

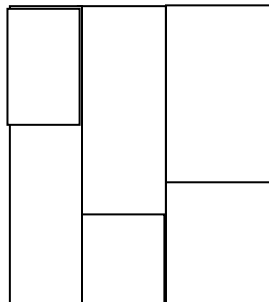
Complete the puzzle and then

write down the letter that will be at 1 ?

	R		
		C	
A			
1			D

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

10. How many rectangles of all sizes are there in this figure ?



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

11. Patricia has R500. She spends R13 every day. After how many days will she have R201?
(A) 22 (B) 23 (C) 24
12. Guess the number I stand for:-
* I am a 3 digit number.
* My ten's digit is 7 more than my unit's digit.
* The sum of my digits is 15.
* My unit's digit is half my hundred's digit.
(A) 249 (B) 924 (C) 492
13. There are 11 numbers from 3;4;5;6;7;8;9;10;11;12;13 .
When two numbers are added they give a total of 16.
How many such pairs are there?
(A) 5 (B) 6 (C) 7
14. Al collected R10 less than Bess.
Des collected R10 more than Bess.
Des collected R40 more than Camy.
The total collected by all was R290 ?
What did Des collect?
(A) R70 (B) R80 (C) R90
15. If $\frac{1}{4}$ of a certain number is 24 less than the number then determine the number.
(A) 28 (B) 32 (C) 36

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