



SOUTHERN AFRICAN PRIMARY MATHEMATICS OLYMPIAD FEMSSISA (SAPMO)

GRADE FOUR ROUND ONE

DATE: 29 JULY - 2 AUGUST 2019

TIME: 90 MINUTES

Instructions:

- 1. This booklet has 20 multiple choice questions.
- 2. Use the answer sheet provided. Circle the letter corresponding to your answer.
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- 5. Diagrams are not necessarily drawn to scale.
- 6. The first 15 problems carry one mark each and the next 5 carry 2 marks each. In order to qualify for the second round you need 7 out of 25 marks.
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Visit the website: www.femssisa.org.za

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NON PROFIT COMPANY REGISTRATION NO: 2015/050119/08



GRADE FOUR 2019

1	Find	

- (A) 24
- (B) 25
- (C) 26 (I
- (D) 27 (E) 28
- 2. Find the sum of the remainders of

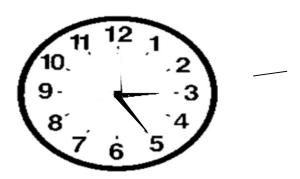
$$303 \div 5$$
 and $91 \div 3$

(A) 4

- (B) 3
- (C) 2
- (D) 1
- (E) 0

Then write down the 3 digit number ABC

- (A) 386
- (B) 486
- (C) 586
- (D) 576
- (E) 566
- 4. How many days are there from 12January 2019 to 12 April 2019?
 - (A) 94
- (B) 93
- (C) 92
- (D) 91
- (E) 90
- 5. The number two thousand and sixty nine can be written as
 - (A) 2 609
- (B) 2 069
- (C) 20069 (D) 3 069
- (E) 3 609
- 6. 48(4 dozen) pears cost R90. How much will 16 such pears cost at the same rate?
 - (A) R60
- (B) R50
- (C) R40
- (D) R30
- (E) R20
- 7. What is the 10th number of this addition sequence 9; 14; 19; 24; ...
 - (A) 49
- (B) 54
- (C) 59
- (D) 64
- (E) 69
- 8. What time did the clock show 3 hours and 20 minutes ago?



- (A) 11:40
- (B) 11:45
- (C) 11:50
- (D) 11:55
- (E) 12:05

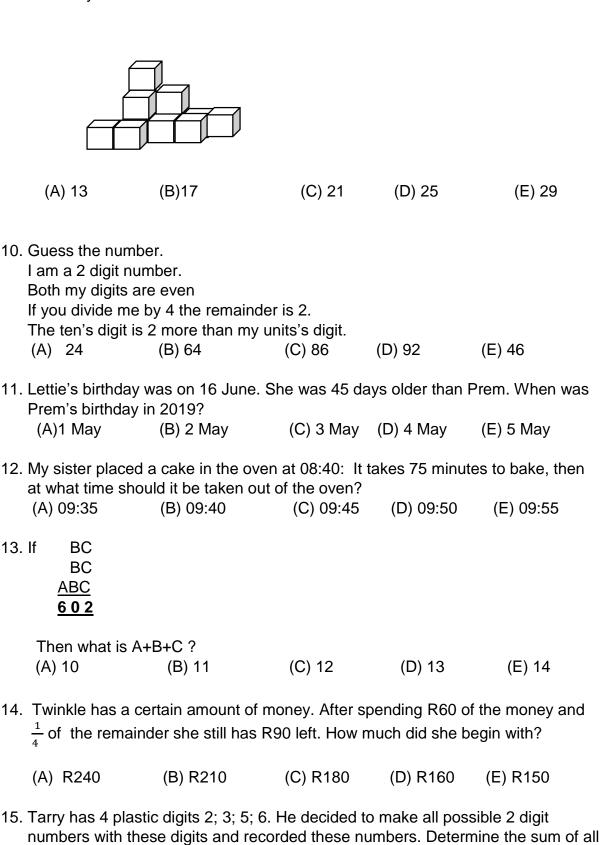
9. How many blocks were used to build this structure?

13. If

these 2 digit numbers.

(B) 528

(A) 520



(C) 536

(D) 544

(E) 552

(A) 30	(B) 31	(C) 32	(D) 33	(E) 34			
	four cards number cardid she make?	ds . She made 2 o	digit numbers.	How many such			
	8 4	3 1					
(A) 10	(B) 12	(C) 14	(D) 16	(E) 18			
•	y and Carey have R920 R80 more than Amy. Ho (B) R260			uch as (E) R200			
every 30 m	19. At school A the buzzer went off every 45 minutes. At school B the buzzer went off every 30 minutes. If both buzzers went off at 08:30 then at what earliest time will the buzzers go off together?						
(A) 12:00	(B) 11:30	(C) 11:00	(D) 10:30	(E) 10:00			
 20. There was three times as many R2 coins as there were R5 coins in a container. When added the total amount was R330. How many R5 coins were there? (A) 24 (B) 30 (C) 36 (D) 42 (E) 48 							
	MARKS: 15 X						
5 X 2 = 10 TOTAL: 25							
	. 3 . / 23						

16. Brenda removed all the multiples of 3 and 5 from the numbers 0 to 60? How

many numbers remained?



SOUTHERN AFRICAN PRIMARY MATHEMATICS OLYMPIAD FEMSSISA (SAPMO) GRADE FIVE ROUND ONE

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NON PROFITCOMPANY REGISTRATION NO: 2015/050119/08



GRADE FIVE 2019

1.	Evaluate : 33 - (A) 16		(C) 20	(D) 22	(E) 24		
2,	Determine	such that	4 (5x5)	= 48			
	(A) 12	(B) 13	(C) 14	(D) 15	(E) 10	6	
3.	If 64 x ==	52 then 16	S x =				
	(A) 13 <u></u>	(B) 14	(C) 15	(D) 16	(E) 1	7	
4.	The estimat	ion of R36	,20 + R14, 60 +	R 102,80 is			
	(A) R180	(B) R160	(C) R154	(D) R150	(E) R	140	
5.	How many tim (A) 56	es can 12 be (B) 54	subtracted from (C) 52	603? (D) 50	(E) 48	3	
6.		/s are there f B) 88	rom 21 March 20 (C) 89			?	
7.	If 49 x 23 = 11	27 then	what is 50 x 23	3 =			
	(A) 1190 (I	B) 1180	(C) 1170	(D) 1160	(E) 115	50	
	How many 350 pure juice?) ml bottles o	f pure juice can	be filled from	5000 m	I container of	
	•	(B) 14	(C) 16	(D) 18	(E	2) 20	
9.			en how many coii (C) 380 (l		E) 340		
10). Which is the (A) 3,175m	_	(C) 3,0675	m (D) 3,17	'05m	(E) 3,175m	
11	11. If 15 litres of juice cost R96 then how much will 5 litres of juice cost at the same rate?						
		(B) R36	(C) R32	(D) R28		(E) R24	

12. An equal number of 50 cent and R2 coins were obtained from R360 notes. How many 50 cent coins were obtained?							
	136 (D) 140	(E) 144					
13. A rectangular garden measure than its width then find the wid	th in metres.						
	25 (D) 26						
14. How many 120cm lengths car (A) 3 (B) 5 (C)	n you cut from timbe 7 (D) 9	er which is 7 m in length? (E) 11					
15. Study the following problem. Do numbers? 3*6 = 18 After you have discovered wh	4*6 = 20	, ,					
	48 (D) 44						
16. Alvin had a secret number. 12 halved to give 14. What was A (A) 52 (B) 48 (C	lvin's secret numbe	er?					
17. ABCD is a square field with po							
	C) 160 (D) 180	(E) 200					
18. Find the sum of the digits of the product. 1111 x 1111							
(A) 16 (B) 17 (C	C) 18 (D) 19	(E) 20					

19. Princess was given a $\frac{1}{5}$ of the price as a discount. She paid R400. What was the initial price of the article?

(A) R480

(B) R500

(C) R520

(D) R560

(E) R600

20. Red and white beads totalling 60 are arranged as follows:- W R WW R WWWW R WWWWW R How many are white beads?

(A) 54

(B) 53

(C) 52

(D) 51

(E) 50

MARKS: 15 X 1 = 15

5 X 2 = 10

TOTAL: 25



SOUTHERN AFRICAN PRIMARY MATHEMATICS OLYMPIAD

FEMSSISA (SAPMO) GRADE SIX ROUND ONE

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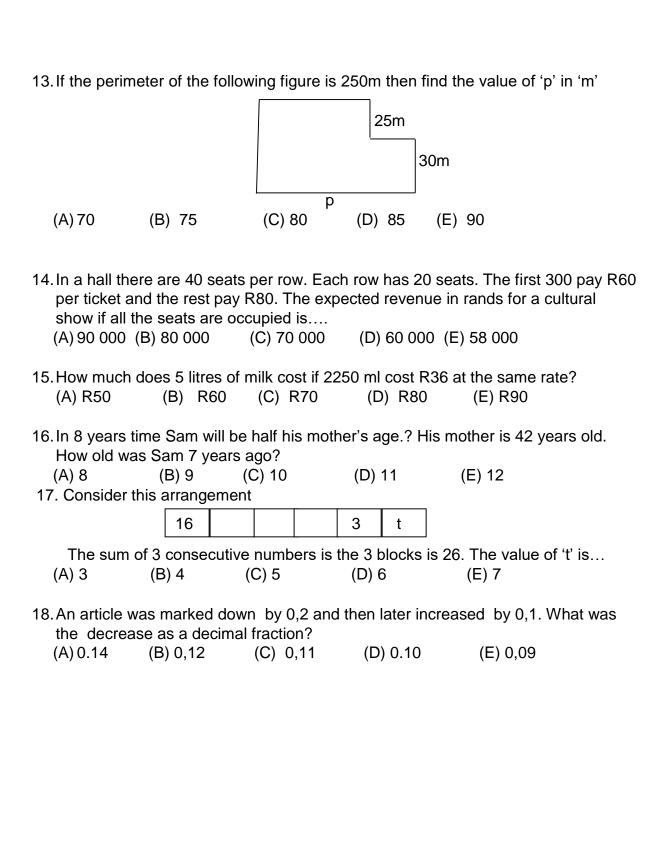


NON PROFIT COMPANY REGISTRATION NO: 2015/050119/08



GRADE SIX 2019

1.	Evaluate: 3		(0) 0	(D) 0	(E) 4		
	(A) 5	(B) 4	(C) 3	(D) 2	(E) 1		
2.	•	•	2 decimal dig (C) 1.63		(E) 1.77		
3.		36 then n = (B) 3		(D) 5	(E) 6		
4.		1 x 200 - 200 (B) 200	x 200 (C) 199	(D) 198	(E) 197		
5.			of 400 g of co (C) R28		. •		
6.	Д	B C A B C	oroblem find A	хВхС			
	(A) 208		(C) 96				
7.	A vendor sole	d 40kg of ton	natoes After	selling $\frac{3}{8}$ of th	e remainder		
				U	matoes did the vendor		
•	(A) 210		(C) 260				
8.		it the 400 met esiree's time		ich was 54.2 s	seconds by 1.9seconds.		
9	` '	` '	(C) 57.1 een Ridgewoo	` '	(E) 52.3 ood is 720km. The map		
Ο.	distance is 3	30cm. If the m	nap distance b	etween Ridge	wood and Candlewood is		
	(A) 216	determine the (B) 336		ce between tr (D) 432	ne two towns in km. (E) 480		
10		digit number	502m3 is divid	ded by 9 the re	emainder is 3. The value of		
	m is (A) 6	(B) 5 (C)) 4	(D) 3	(E) 2		
11	. Determine t	the fraction x	such that $\frac{1}{2}$ is	s midway betw	ween x and $\frac{2}{3}$		
			(C) $\frac{1}{4}$				
12	12. If $\frac{3}{4}$ of the discs is 240 then find $\frac{1}{8}$ of the discs.						
	(A) 20	(B) 30		(D) 60	(E) 80		



	tarting with 21.	•	21 to 120. Every r was struck off.	3 rd number was . How many	
(A) 48	(B) 50	(C) 53	(D) 54	(E) 55	
,	· ,	()	` ,	()	
20. In the set of 20 natural numbers from 1 to 20 the sum of two numbers is found such that it is divisible by 9. How many such combinations are there?					
Such that it	is divisible by a	. How many suc	in combinations	are mere?	

(D) 15

(E) 16

MARKS: 15 X 1 = 15 5 X 2 = 10

(C) 14

TOTAL: 25

(B) 13_{_}

(A) 12



SOUTHERN AFRICAN PRIMARY MATHEMATICS OLYMPIAD FEMSSISA (SAPMO)

GRADE SEVEN
ROUND ONE

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GRADE SEVEN 2019

Write dov 2. 2.2 x 0.3 (A) 1.13	(B) 9 vn the value of	(C) 0.0132					
(A) $\frac{31}{2}$	(B) $\frac{29}{2}$	(C) $\frac{27}{2}$	(D) 14	(E) 15			
222 x 1 (A) 220 5. Mark mis in second (A) 4min 3	 4. Find the value of: 222 x 112 – 110 x 222 - 222 (A) 220 (B) 222 (C) 224 (D) 226 (E) 228 5. Mark missed the 1500 metres school record by 3.8 seconds. What is the record in seconds if the Mark's time was 4min 33 seconds? (A) 4min 36.8sec (B) 4min 30.2sec (C) 4min 30.8sec (D) 4min 29.2sec (E) 4min 29.8sec 						
ВЕ	<u> </u>	on problem find	dBxC if				
	(B) 42	(C) 56	(D) 63	(E) 72			
7. If $\frac{4}{9}$ of the	e of the houses	built is 1200 t	hen find $\frac{2}{3}$ of the	the houses built.			
(A) 1400	(B) 1500	(C) 1600	(D) 1700	(E) 1800			
8 The actual distance between Falon and Seaview is 750km. The map distance between Falon and Seaview is 30cm. The actual distance between Seaview and Ridge is 400km The map distance between these two towns in cm is							
	(B) 22	(C) 20	(D) 18	(E) 16			
6; 6; 12; ⁻	9 This is a Fibonacci type sequence 6; 6; 12; 18;30;						
(A) 7^{th} 10. If $\frac{3}{8}$ +	m is equal to 20 (B) 8^{th} $\frac{n}{12} = \frac{19}{24}$ value of 'n' is	(C) 9 th	(D) 10 th	(E) 11 th			
(A) 8	(B) 7	(C) 6	(D) :	5 (E) 3			

	15 is added to p t value p can have		s divisible by 3	6. What is the smallest	t
(A) 24	(B) 25	(C) 26	(D) 27	(E) 28	
	m of the 5 consec e the date of the t	•	•	dnesday of the month i	s 75
(A) 23 rd	(B) 22 nd	•	(D) 20 th		
If AB =	36 metres and BC		•	etre amounted to R360 measurement of GE in	
metres. (A) 18	(B) 17 Δ	(C) 28 B	(D) 24	(E) 20	
		٦			
G	E				
D D	_	C			
	oles and 224 pear the largest numbe			ng all the learners pres	ent.
(A) 32	(B) 30	(C) 28	(D) 26	(E) 24	
				pent an equal amount	
	nad R200 of her m e spend?	noney left while	st Pearl had $\frac{2}{3}$	left. How much did	
(A) R180	•	(C) R220	(D) R240	(E) R260	
				hase is R12 less than	
the cost	of the purchase?			ne same purchase. Wh	nat is
(A) R6	0 (B) R70	(C) R80	(D) R90	(E)R100	
	d C are the digits n of A and C equa	_	number ABC		
The pro	oduct of A and B of and B of B and C equal	equals 32			
(A) 84	A x B x C = (B) 96	(C) 108	(D) 120	(E) 132	
(,,)	(2) 00	(5) 100	(2) 120	(=) 102	

18. Eight years ago Selina would have been half her age in 3 years time. What will Selina's age be in 2 year's time?

(A) 12

(B)14

(C)16

(D)18

(E)21

19. 9 workers can do a job in 4 days. How long in days will it take 12 workers to do the same job if all work at their same rate?

(A) 6

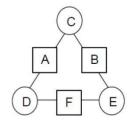
(B) 5

(C) 4

(D) 3

(E) 2

20. The sum of the two numbers in the two circles gives the number in the square between them. If $2 \times C + D = 25$; $C + 2 \times E = 32$ and A + B + F = 58 then give the value of $C \times D \times E$



(A) 648

(B) 720

(C) 792

(D) 864

(E) 936

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