DAV PUBLIC SCHOOL, CHANDRASEKHARPUR, BHUBANESWAR-21 MTHE 2019 SUB JUNIOR (V & VI)

1.	If A : B = 3 : 4			
	(a) 3:8:9	(b) 6:8:18	(c) 6 : 8 : 9	(d) 3 : 8 : 18

- Which of the following statements is true : 2. Statement 1 : All squares are rectangles Statement 2 : All rectangles are square (b) Only statement 1 (a) Only statement 2 (d) None of these (c) Both statement 1 & 2 % of 240 + 20% of 920 = 208. The missing number is : 3. (c) 5 (d) 10 (b) 15 (a) 20Find the sum of $1 + 3 + 5 + 7 + 9 + \dots + 19$ 4. (c) 100 (d) 64 (b) 81 (a) 121
- 5. Prime factorisation of 13915 is :

	(In the set set setucit WORK)
(c) $11 \times 7 \times 23 \times 3$	(d) $5 \times 11 \times 11 \times 3$
(a) $5 \times 11 \times 11 \times 23$	(b) $5 \times 11 \times 7 \times 23$

(SPACE FOR ROUGH WORK)

	C are three numbe	(c) $\frac{7}{11}$	(d) $\frac{7}{9}$		
	then the LCM of A		of A and B is B and the	LCM of]	
(a) A	(b) B	(c) C	(d) $\frac{A+B+C}{3}$		
			the second s		
(c) Acute ang	gled triangle	(d) Equilateral	triangle		
The average of 9 numbers is 30. The average of first 5 numbers is 25 and that of the last 3 numbers is 35. What is the 6th number ?					
(a) 20	(b) 30	(c) 40	(d) 50		
If 378 coins consist of one rupee, 50 paise and 25 paise coins whose values are in the ratio of 13 : 11: 7, the number of 50-paise coins will be					
(a) 132	(b) 128	(c) 136	(d) 133		
seconds resp at the beginn	ectively. How mar ing ?	ny times will they ring	together in one hour exce	18 and 24 ept the one	
(a) 9 times	(b) 10 times	(c) 11 times	(d) None of these		
If 12 men car	n do a piece of wo	rk in 18 days, in how r	nany days will 8 men co	mplete it '	
(a) 12	(b) 27	(c) 10	(d) $\frac{16}{3}$		
	 (a) Right tria (c) Acute ang The average 3 numbers is (a) 20 If 378 coins ratio of 13 : 1 (a) 132 Five bells be seconds resp at the beginn (a) 9 times If 12 men car 	 (a) Right triangle (c) Acute angled triangle The average of 9 numbers is 30 3 numbers is 35. What is the 66 (a) 20 (b) 30 If 378 coins consist of one rup ratio of 13 : 11: 7, the number of (a) 132 (b) 128 Five bells begin to ring together seconds respectively. How mar at the beginning ? (a) 9 times (b) 10 times 	 (a) Right triangle (b) Obtuse ang (c) Acute angled triangle (d) Equilateral (d) Equilateral The average of 9 numbers is 30. The average of first 3 numbers is 35. What is the 6th number ? (a) 20 (b) 30 (c) 40 If 378 coins consist of one rupee, 50 paise and 25 p ratio of 13 : 11: 7, the number of 50-paise coins will b (a) 132 (b) 128 (c) 136 Five bells begin to ring together and ring respectively seconds respectively. How many times will they ring to at the beginning ? (a) 9 times (b) 10 times (c) 11 times 	 (c) Acute angled triangle (d) Equilateral triangle The average of 9 numbers is 30. The average of first 5 numbers is 25 and that 3 numbers is 35. What is the 6th number ? (a) 20 (b) 30 (c) 40 (d) 50 If 378 coins consist of one rupee, 50 paise and 25 paise coins whose values ratio of 13 : 11: 7, the number of 50-paise coins will be (a) 132 (b) 128 (c) 136 (d) 133 Five bells begin to ring together and ring respectively at intervals of 5, 6, 15, seconds respectively. How many times will they ring together in one hour excert at the beginning ? (a) 9 times (b) 10 times (c) 11 times (d) None of these 	

13.	A circle is inscri of the square is	bed in a square as sl :	nown. If the radius of	of the circle is 4 cm, the perimeter 4 cm
	(a) 28 cm	(b) 24 cm	(c) 32 cm	(d) 36 cm
		Less hatricon 200 a	nd 500 are divisible	e by 13?
14.	(a) 15	(b) 23	(c) 38	(d) 53
15.	Priya incomes	Rs.y daily and sav	es Rs.x per week.	How much she will spend in 3
	wooks?	(b) 3x - 21y		(d) None of these
and.	5 FA	(37 - 2y) + 47 - 2	3(x + 3y - 2z)] =	
16.	$5x - [4y - {7x}]$ (a) $9x + 11y$	(b) 9x + 7z	(c) $9x - 11y$	(d) $9x - 11y + 7z$
	C.1	a appropriate odd	natural number is 8	37. Find the smallest no.
17.	The sum of thr (a) 27	(b) 29	(c) 31	(d) None of these
18.	Three-fourth o	of two-third of a nu	mber is 782. What	is three fifth of one-fourth of the
	same no. (a) 1564	(b) 234.6	(c) 234	(d) None of these
19.	In a park, there	e are some cows and	d some ducks. If tota	al number of heads in the park is 68 e total number of ducks in the park. (d) 17
	and number of (a) 34	(b) 137	(c) 31	(d) 17
20.	A number cor	sists of two digits v	vhose sum is 8. If 18	8 is subtracted from the number, the
	digits intercha	ange their places, th	ien what is the nume	(d) 58
	(a) 35	(b) 53	(c) 85	(u) 50

(SPACE FOR ROUGH WORK)

197	(a) Rs.8	(b) Rs.18	(c) Rs.88	(d) Rs.24	
8.	$R_{s.8} + (8\% \text{ of })$	Rs.100) + (100% of	$(\mathbf{P} \circ \mathbf{S}) = 2$		
	(a) Brother	(b) Nephew	(c) Uncle	(d) None of these	
44	Surjeet ?	a o oronier. wreena	is Ajay's sister and	l Ajay is X's father. Who is	s 'X' to
7.	Surieet is Meet	a's brother Means	is A joy's sister		
	(a) 500 km	(b) 550 km	(c) 1000 km	(d) None of these	
	hours, then how	w much distance wi	ll the second bike c	te covers a distance of 500 sover in 4 hours ?	km in 5
6.	The ratio of sp	eds of two bikes is	A . 5 If the first 1 1	1996 mj.	
	(a) 42	(b) 44	(c) 46	(d) None of these	
Р	expression: 17	$-, \times \text{means} + ,$ $+5 \times 8 \div 36 - 9$	÷ means '×' and	1 - means + n, find the v	value of
5.	If '+' magna '	2 6 2	, 14 14 L		
	$(a) \frac{1}{3}$	(b) $\frac{1}{12}$	(c) 12	(d) $\frac{4}{3}$	
	(a) $\frac{2}{3}$			4	
24.	How many on	e-thirds are there in	4?		
	(a) 16	(b) 18	(c) 14	(d) None of these	
23.		equal to 12% of B	, then 15% of A =	% of B.	_
		(0) 5	(0) 0	(d) 7	$ \rangle$
<i>44</i> .	(a) 4	angles in the given f (b) 5	igure is : (c) 6	(1) 7	
22.	Number of Co.				\wedge
		s.550, Rs.1020	(d) None of t		
	(a) Rs.340, R	s.510, Rs.1020	third part are equal (b) Rs. 340 R	Rs.530, Rs.1000	

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37.	The number (a) 14	of prime numbers less (b) 15	than 50 is (c) 16	(d) 17	
	(a) $\frac{3}{4} < \frac{4}{5}$	(b) - 0.5 > - 0.9	9 (c) $\frac{7}{9} > \frac{9}{12}$	(d) - 4 < 0	
86.		following is false?	7 0		
	(a) 24 years		(c) 20 years	(d) 32 years	
5.	A sum becor	nes double in 16 years.	It will triple itself i	n	
4.	Ram buys a (a) Rs.240	watch for Rs.200 and so (b) Rs.150	ells it at a gain of 2 (c) Rs.260	0%. The selling price is (d) Rs.180	*
			(c) 116	1.21	
3.		of y to y is equivalent to	multiplying y by	(d) 1.06	
	numbers are (a) 30 and 75	(b) 35 and 70	(c) 40 and 65	(d) 45 and 60	
2.			their L.C.M. is 18	0. If their sum is 105,	then th
1.	Find the num (a) 13	ber of zeroes at the end (b) 11	1 of 50 ! (c) 5	(d) 12	
).	7386038 is di (a) 3			(d) 11	39
	(a) 1.2 km	(b) 1.8 km	(c) 2.4 km	(d) 3.6 km	

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38.	The L.C.M of th	- 10 C	591 C T (5) C T			
ist.	(a) $2\frac{2}{5}$	(b) $\frac{2}{5}$	(c) $\frac{1}{5}$	(d) $\frac{1}{30}$	36460 1 (14)	
9.				M. is 180, find the nu (d) None of the		
0.	If 120 is 20% of	a number, then	120% of that number	er will be :		
	(a) 20	(b) 120	(c) 480	(d) 720		
1.	(b) If a is a whol than a former the	lication fact give le number and it en quotient is no	es two correspondin is divided by anoth	g division facts. er whole number b wh wes the quotient 1.		
2				In that $a \div (b \div c) = (a \div b)$)÷c	
2.				n do the same job in	Mar 📍	
	(a) d + r days	(b) d – r day	s (c) $\frac{d}{m+r}$ day	s (d) $\frac{dm}{m+r}$ days		
3.	The percent that	M is greater that	n N is			
	$(a) \frac{100(M-N)}{M}$	(b) $\frac{100(M-M)}{N}$	$\frac{N}{N}$ (c) $\frac{M-N}{N}$	(d) $\frac{M-N}{M}$		
4.	If 64 is divided into three parts proportional to 2, 4 and 6, the smallest part is :					
	(a) $5\frac{1}{2}$	(b) 11	(c) $10\frac{2}{3}$	(d) 5		
		(SPA	CE FOR ROUGH WORK)		
					21	

45.	If the digit 1 is pl the new number i		digit number whole ten	i's digit is t and unit's di	git is u,	
26) z	(a) $10t + u + 1$		1 + 1 (c) 1000t + 10u +	1 (d) $t + u + 1$	e de	
46.	The number of d	iagonals that can	be drawn in a polygon	of 100 sides is :		
	(a) 4850	(b) 4950	(c) 9900	(d) 98		
47.	A six place number is formed by repeating a three place number; for example 256, 256 of 678, 678 etc. Any number of this form is always exactly divisible by					
	(a) 7 only	(b) 11 only	(c) 13 only	(d) 1001		
48.			-	n of a party. Assuming th number of people preser	20	
	(a) 14	(b) 28	(c) 56	(d) 8	25	
49.	By selling an article for Rs.450, Muralidhara loses Rs.50. At what price must he sell the article to gain 20%?					
	(a) 400	(b) 90	(c) 600	(d) 530		
		and the second stresses			٠.	
50.		y were found ro	otten. At what price pe	ozens of bananas could er dozen should philip		
	(a) Rs. $18\frac{2}{3}$ per de	ozen	(b) Rs.18 per doz	zen		
	(c) Rs.9 per doze	en	(d) None of these	Programmer of quitage.		
		rcular pipes with		1 cm which will carry th	ne same	
51.			inside diameter of 6 ci	m is		

(SPACE FOR ROUGH WORK)

52.				10 cm. If sides AB and \overline{A}	C are				
		BC remains the sam	e then;						
	(a) The area is a		i nati bir bir ifratan i	The minime of diag or th	-ini-				
	(b) The altitude		영태 이번	1 - 1 - V/84 (a)					
		our times the origin	alarea		5				
	(d) The area of	the triangle is 0							
53.			an be constructed tal I to the first, as verti	cing 2 points on one straigh ces of the triangles.	nt line				
		(b) 8	(c) 9	(d) 5					
54.	There are 9 one digit numbers. There are 90 two digit numbes. How many 4 digit nu bers are there ?								
	(a) 90	(b) 900	(c) 9000	(d) 90000					
55	$16.5^2 + h = s^2 st$	$d 5^2$ $h = h^2 thon f$	ind the values of a,	h and h					
55.			(b) $a = 1, b = 7,$						
	(a) $a = 7, b = 1, h = 24$ (c) $a = 24, b = 1, h = 7$		(d) None of thes		~				
	(c) a - 24, 0 -	1, 11 – 7	(u) None of the	Service passion and ship in	nic.				
56.	The sum of all t	two digit numbers is	3						
	(a) 45	(b) 4950	(c) 494550	(d) None of these					
		All per dazen "	F (1)	(c) [11 16] (c)					
	The number of divisors of 300 is								
57.		(b) 18	(c) 10	(d) None of these					
57.	(a) 5	(0) 10		By selling a watch for Rs.1440 a man losses 10%. At what price should he sell it to gain 10%?					
	(a) 5	mitta I To to tommit	an losses 10%. At w	hat price should he sell it t	o gain				
57. 58.	(a) 5 By selling a wa	mitta I To to tommit	an losses 10%. At w (c) Rs.1650	hat price should he sell it to (d) Rs.1820	o gaiı				

- 59. The sum of ages of a man and his son is 47 years. After 4 years, the age of man will be four times to the age of his son. Age of son is
 (a) 6 years
 (b) 7 years
 (c) 8 years
 (d) 9 years
- 60. A man goes to his office from his house with the speed of 4 km/hr and returns with the speed of 16 km/hr. Then, average speed of whole journey is
 (a) 10 km/hr
 (b) 6 km/hr
 (c) 6.4 km/hr
 (d) None of these

(SPACE FOR ROUGH WORK)