	<u>Mental Maths Competition®</u>											
	Organized by											
	Global Maths Science Education [®]											
	In Association with											
	Math Vision Pte Ltd., Singapore.											
	MOCK TEST											
	Std. 9											
	Instructions for the Competition											
	Total Marks : 200 Total No of questions: 75											
1.	Time: 1 ¹ / ₂ hr											
2.	Students can use HB Pencil for marking answers in OMR sheet.											
3.	Questions are arranged according to 3 difficulty level to provide pupils with optimum explosure to Mental Maths.											
4.	[Section 1] In this section, there are 40 questions help to build calculation skills Each question carries 2 marks.											
5.	[Section 2] It is related with 20 questions to test fundamental concept coverec in topic listed below. Each question carries 3 marks.											
6.	[Section 3] Here questions are challanging & required high order thinking skills. Each question carry 4 marks. Students are requested to practice extra question											
	given alongwith the Mock paper. Any 15 questions can be asked from given question format in mock paper & extra practice questions.											
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	E-mail : mmcgmse@gmail.com											

Ste	d:9	Mental Ma	aths Co	mpetition [®]	2
	SECTION Mental Maths C		8.	The bridge A and bridge B	is 1.28 km
1.	$\frac{3}{25} =$ (a) 0.102 (c) 0.1012			long. Find dif between their (a) 0.794 (c) 0.749	r length. (b) 79.4
2.	125 × 49 × 8 =	= (b) 5000	9.	(a) 30 (b) (c) 60 (d)) 40) 70
3.	Average of 35 43 is (a) 37 (c) 39		10.	How do you v percentage. (a) 5% (b) (c) 40% (d)) 50%
4.	The L.C.M. of is 18. If one o is 6 then the o	f the number	11.	What is a cul (a) 2917 (c) 2197	
	is (a) 18 (c) 2	(b) 3 (d) 7	12.	297 + 103 = 4 (a) 10 (c) 15	(b) 20
5.	$1009^2 =$ (a) 1,081, 081 (c) 1,051,051	(b) 1,180,081 (d) 1,018, 081	13.	By what leng longer than 4	th 50.4 km is $17\frac{1}{2}$ km
6.	$996^2 =$ (a) 992, 016 (c) 976, 016	 (b) 982, 016 (d) 991, 016	14.		(b) 2.9 km (d) 2.6 km se numbers is
7.	$\sqrt{0.0225} = $ (a) 15 (c) 0.15	(b) 1.5 (d) 0.015		multiple of 10 both 48, 126 (a) 48 (c) 90	

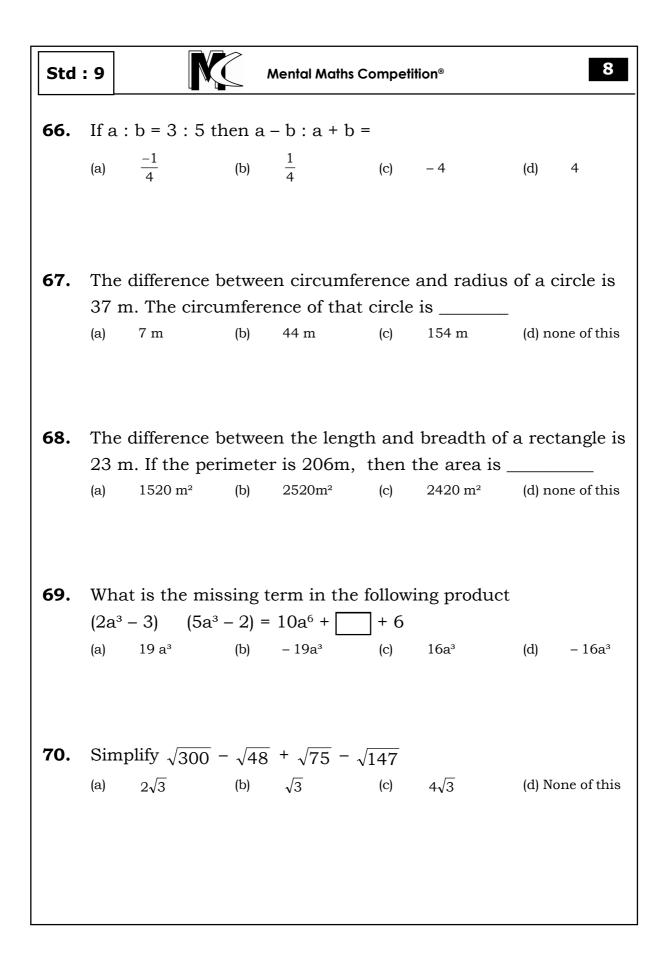
Std	: 9	Mental N	Aaths Cor	mpetition®	3
15.	$40 \times 2\frac{3}{4} =$ (a) 121 (c) 50) (b) 110 (d) 111	21.	The sum of 1 72.985 is (a) 91.85 (c) 91.085	8, 16.3 and (b) 9108.5 (d) 9.1085
16.	$7^3 - 7^2 =$ (a) 7 (c) 680	(b) 49 (d) 294	22.	180 km/h = (a) 10 m/s (c) 200 m/s	
17.	The sum of tw - 9 is one is 4 other. (a) 13 (c) 5	e		(c) 360 12 : 3 :: x : 1	(b) – 360 (d) 60
18.	If $x = 2$, $y = 3$ (- x) ^y + (y) ^x = [(a) - 1 (c) 1		25.	4 (c) 4 (d) 1) 5 er is reduced
19.	Which decim the same as (a) 0.34 (c) 0.75	3			ne number) 30) 50
20.	A man buys a ₹ 600 and set of 25%. He set for (a) ₹ 700 (c) ₹ 900	lls it at profit	26.	If $\frac{1}{7}$ of 49 + 2 x + 49 then 2 (a) 10 (c) 16	

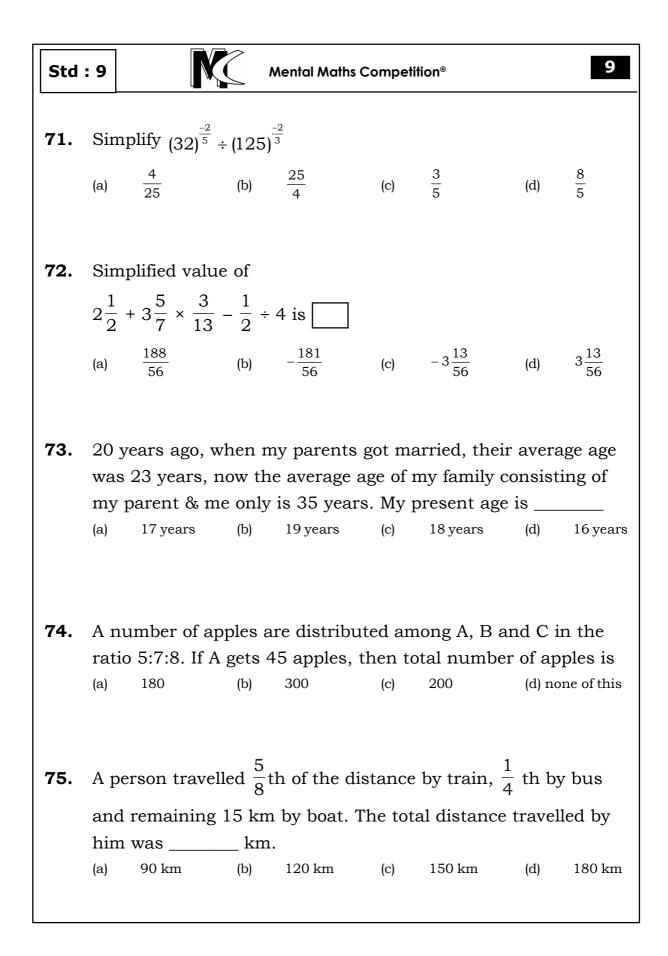
Std	: 9 Mental	Maths Co	ompetition [®]
27.	Which number is greater then $\frac{1}{2}$?	34.	In what times will ₹ 72 becomes ₹ 81 at 6¼% p.a. (a) 1½ years (b) 2½ years
	(a) 0.7 (b) 0.25 (c) 0.48 (d) 0.299	35.	(a) 172 years (b) 272 years (c) 2 years (d) None $\frac{3}{4} x + 8 = 17, x = \square$
28.	$\frac{5}{10} + \frac{3}{1000} = $ (a) 53 (b) 0.53 (c) 0.530 (d) 0.503	36.	(a) - 12 (b) 36 (c) 12 (d) - 36 What is a percentage of change
29.	95 - = 400(a) 305 (b) 205 (c) -205 (d) -305		from 5,00,000 to 20,000 (a) 122% increase (b) 122% decrease (c) 96% increase (d) 96% decrease
30.	4 times of 32 – 6 times of 1 (a) 23 (b) 32 (c) 48 (d) 0	6 37.	A number 40 is divided into two parts in the ratio 3:2. Find the product of the numbers (a) 384 (b) 354
31.	$\frac{7}{\sqrt{10} + \sqrt{3}} =$ (a) $(\sqrt{10} + 3)^2$ (b) $7(\sqrt{10} - \sqrt{3})$ (c) $\sqrt{10} - \sqrt{3}$ (d) None	38.	(c) 394 (d) 374
32.	If $a + b = 7$, $a^2 + b^2 = 25$ find $a \times b$ (a) 12 (b) 13 (c) 7 (d) 25	39.	(c) 2 (d) 4 Area of square is 625 sq.m. Its perimeter is
33.	(c) 7 (d) 23 $\frac{1}{2}$ of $256 - \frac{1}{3}$ of $96 =$ (a) 256 (b) 32 (c) 96 (d) 54	40.	(c) 50 m (d) 25 m Cirumference of circle = π d. Find the circumference when π = 3.14 and d = 5cm (a) 15.8 cm (b) 15.6 cm
			(a) 15.8 cm(b) 15.6 cm(c) 15.9 cm(d) 15.7 cm

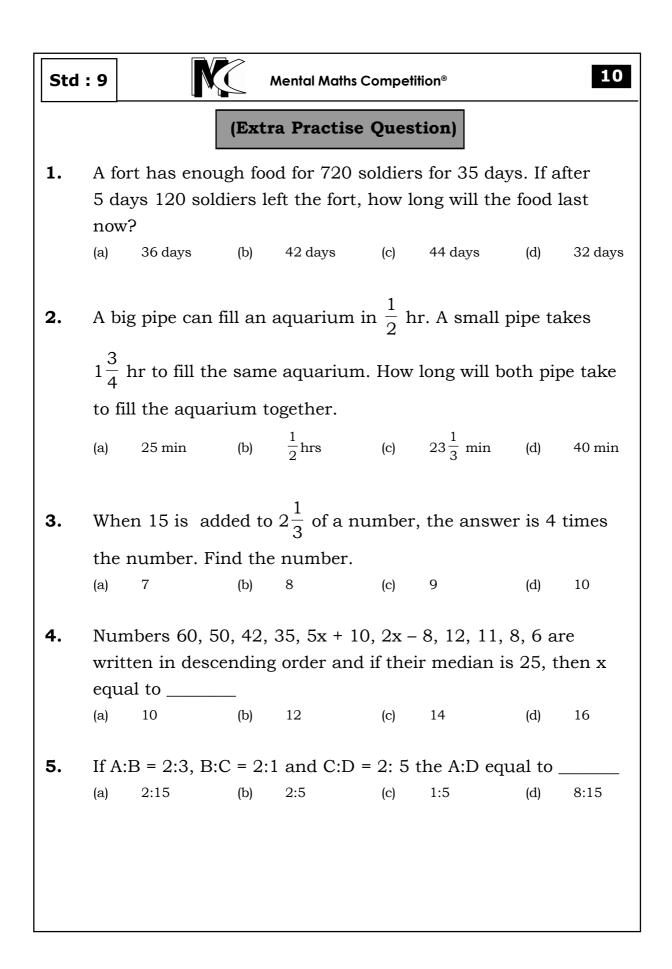
Std	: 9	Mental Ma	aths Co	mpetition [®]	5
	SECTIO Mental Math		45.	suppleme	is one third of its nt find its measure
41.	What is a di in 15 min at	stance travelled t 72 km/hr.		(a) 135° (c) 60°	
	(a) 36 km (c) 30 km	(b) 18 km (d) 19 km	46.		number is added n the sum is 46.
42.		ese numbers is 9		The numl	(b) 56
	equivalent t (a) $\frac{45}{32}$	0 $\frac{1}{8}$ (b) $\frac{45}{40}$	47.	(c) 65 An article	^{(d) 0} costing₹720 is
	(c) $\frac{40}{45}$	(d) $\frac{32}{45}$			by $\frac{1}{20}$. For cash
43.	20 tins of sy	veetcorn are			price is
	bought for ₹	300 and sold at Find profit after		(a) ₹ 36 (c) ₹ 654	(b) ₹ 674 (d) ₹ 684
	selling all th	ne tins.	48.		of hall is 60m ² . Its
	(a) 20% (c) 40%	(b) 30% (d) 10%		length is 8 (a) 31 m (c) 30 m	m find its perimeter (b) 15.5 m (d) 15 m
44.	A boy's walk measures 6	ang pace 0 cm. How may	49.	Ratio of R	adii of two circles
		e walked after			eir circumference's
	(a) 300 m (c) 3 m	(b) 30 m (d) 30000 cm		(a) 9:4 (c) 8:18	(b) 4:9 (d) 16:81

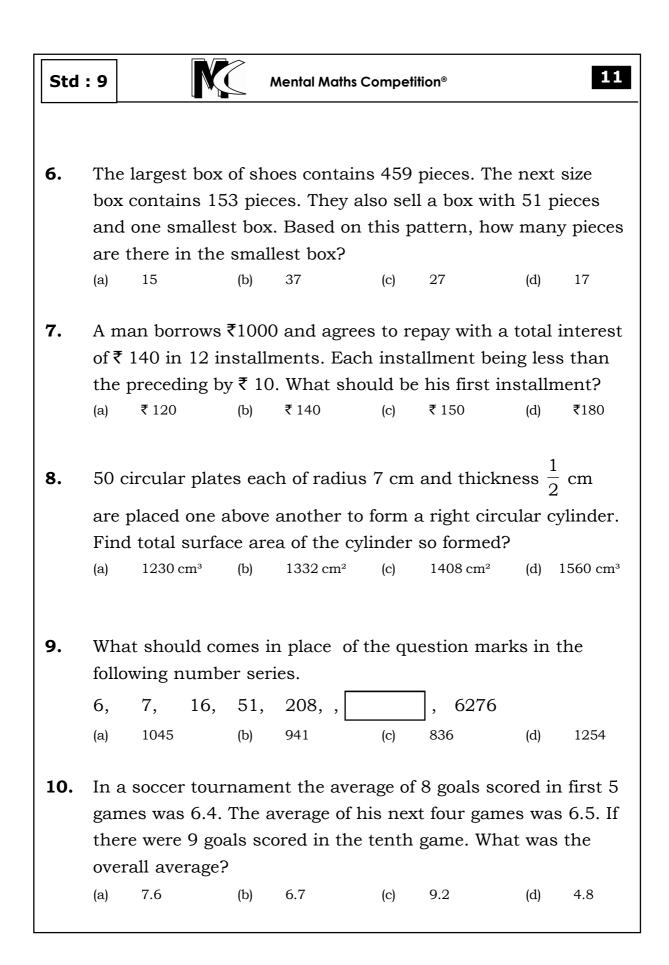
Std	: 9	Mental Ma	aths Co	mpetition [®]	6		
50.	the ratio	ns of money are in o 2:5, If the second 5 95, the first sum	55.	$24 - [10 - \{3 - (1 - 4 - 6)\}] =$ (a) 26 (b) 24 (c) 23 (d) 5			
	(a) ₹ 28 (c) ₹ 42	(b)₹21 (d)₹38		Value of X (a) 28 (c) 14	in $\frac{x}{4} + \frac{1}{2} = 4$ (b) - 28 (d) - 14		
51.	In $\frac{a}{8} + \frac{a}{8}$ is (a) 122 (c) 16	$\frac{a}{4} = 6$, the value of a (b) - 16 (d) 0	57.		e a sum will able of itself at (b) 4 yrs (d) 20 yrs		
52.	BC + CA = 16 cm	BC AB + BC = 10 cm a = 12 cm, CA + AB . The perimeter of 	58.	The three even consecutive integers whose sum is 90. The smallest of them is (a) 26 (b) 24 (c) 38 (d) 28			
53.	number	f 3 consecutive odd s is 201, find the c of them (b) 67 (d) 63	59.	8 hrs. How	(b) 5 hrs (d) 12 hrs		
54.	$\left(m^{\frac{1}{2}} \times m\right)$	$\left(\frac{1}{3}\right)^6 = \mathbf{m}^{\square}$	60.	Find the vertex angle of an isosceles triangle if its base angle is 75°			
	(a) 5 (c) 12	(b) 6 (d) 18		(a) 50° (c) 25°	(b) 30° (d) 115°		

Std	: 9		ζ	Mental Mat	hs Compe	lition [®]		7
		SEC	TION	3 (Menta	al Math	s Chal	lenge))
61.		dents has ailed by 6 100					ss. He got 8 marks. (d) 4	
62.				_			the ratio o C is	
	(a)	₹450	(b)	₹580	(c)	₹640	(d)	₹1260
63.	U	flagpole is ed yellow.		•			emaining 3	m is
	_	$5\frac{5}{11}$ m				(c)	5 km	(d) None
64.	One o		t got 6	2% votes	and wa	s elect	bated in an ed by a ma (d)	
65.	subtr		n the j	product a	nd the o	differe	tiplied by 5 nce is divid (d)	









Std	: 9			Mental Maths	Compe	tition [®]		12
11.		tyre rotates elling at 40			-			
	(a)	0.0044 km	(b)	0.5 km	(c)	3.44 km	(d) ().66 km
12.	deno	e numerate ominator of tion is $\frac{9}{35}$.	the fr	action is in	icrease	-		
	nac	35	i ind t		•			
	(a)	$\frac{3}{10}$	(b)	$\frac{2}{5}$	(c)	$\frac{3}{14}$	(d)	$\frac{2}{17}$
13.		series 2,						
	(a)	41	(b)	42	(C)	43	(d)	44
14.	has 1/3 has	ia and San earned hal of money, ₹ 90000 aft	f wha Sania cer 5 y	t Mania ea spent 1/4 ears. How 1	rned fo every much 1	or 5 years. for those 5 mania has	Mania years. after 5	spent Sania years.
	(a)	₹2,40,000	(b)	₹16,000	(c)	₹215000	(d) ₹	£1,60,000
15.	two	glasses of glasses car needed to r	n hold	400 ml of	juice, I	how many		
	(a)	10	(b)	8	(c)	4	(d)	40

Std :	9	K		Nental Maths (Competit	lion®		13			
16.	nun	times a 1 ber. What	is this	s number.							
	(a)	337.5	(b)	150	(c)	90	(d)	45.5			
17.		re are 5900 , there is 1									
	are born. At the same times $\frac{1}{20}$ of the population passes away										
	each (a)	n year. Find 7080	l the p (b)	opulation i 6785	n the l (c)	oeginning 6000	of 2005 (d) 7				
18.	mar	a farm, the ny cows as , how many	ducks	. If all the a	animal	s have a t					
	(a)	20	(b)	30	(C)	40	(d)	50			
19.	of 90 was	, Bala and 5 km/hr, 1. the speed m/hr.	5 km/	'min and 1	650 m	/min. How	much	faster			
	(a)	3 km/hr	(b)	6 km/hr	(c)	9 km/h	(d) 1	2 km/hr			
20.		sum of two er. Find the					$\frac{2}{3}$ of the	he			
	(a)	$\frac{2x}{3}$	(b)	$\frac{x}{6}$	(c)	$\frac{6x}{5}$	(d)	5x 6			

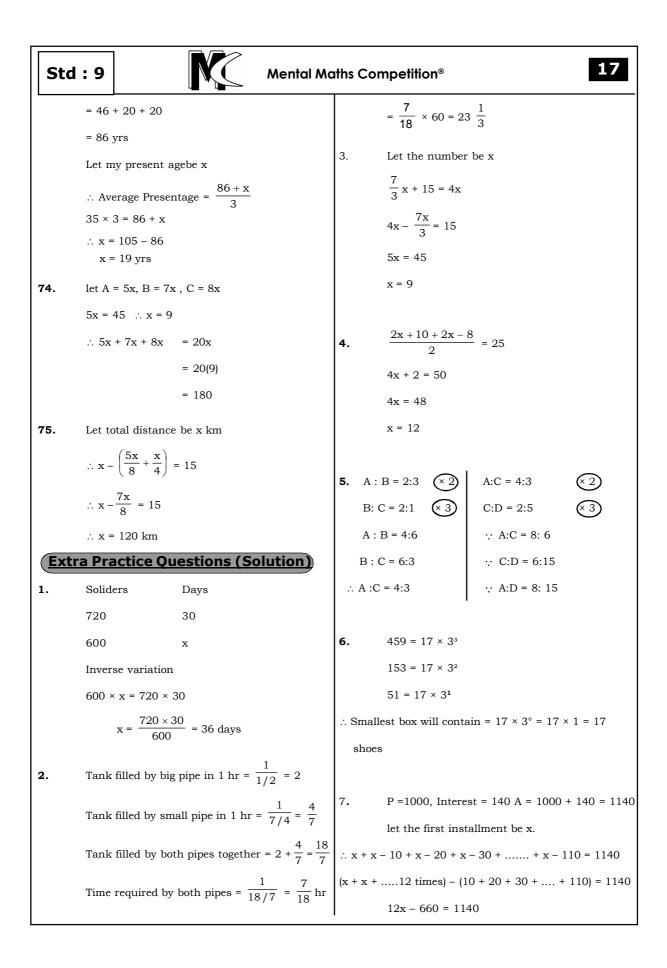
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21.						n its denom ninator, the					
			0	What is a o			value of				
	(a)	$\frac{16}{7}$	(b)	$\frac{9}{16}$	(c)	$\frac{4}{16}$	(d) $\frac{7}{16}$				
22.	840 people attended Global International Maths Competition. 75% of them were students. 70% were Europians students and rest of the students are either indian or chinese.The ratio of number of Indian student to the number of chinese students was 1:2 how many chinese students were there.										
	(a)	441	(b)	189	(c)	126	(d) 130				
23.		Prabhu tra el 0.65 km		90 km in 6	hrs. H	low long wil	l he take to				
	(a)	3.6 seconds	(b)	36 seconds	(c)	3.6 minutes	(d) 36 minutes				
24.	and					-	base 0.24 m naining part				
	(a)	6792 cm ²	(b)	6972cm ²	(c)	7296cm ²	(d) 7692cm ²				
25.	A tir	ı of oil has	a mas	ss of 4 kg wi	hen it	$\frac{3}{4}$ full. It has	as a mass				
	of 3.25 kg when it is $\frac{3}{5}$ full. Find the mass of the tin.										
	of 3.	25 kg wher	ı it is	$\frac{3}{5}$ full. Find	the m	ass of the ti	n.				

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Std : 9				N	\ento	al Mati	hs C	ompe	titio	n®		
	_		4	An	sw	ver S	Sh	<u>eet</u>				
ſ	1		b			26		b			51	С
	2		d			27		а			52	а
	3		с			28		d			53	С
	4		а			29		d			54	а
	5		d			30		b			55	а
	6		а			31		С			56	С
	7		с			32		a			57	С
	8		а			33		С			58	d
	9		d			34		С			59	С
	10		d			35		С			60	b
	11		С			36		d			61	d
	12		а			37		а			62	с
	13		b			38		b			63	а
	14		d			39		а			64	b
	15		b			40		d			65	а
	16		d			41		b			66	а
	17		b			42		b			67	b
-	18		с			43		а			68	b
	19		с			44		b			69	b
-	20		b			45		b			70	с
	21		с			46		b			71	b
	22		b			47		d			72	d
	23		d			48		а			73	b
	24		с			49		b			74	а
	25		а			50		d			75	b
L				<u>s fo</u>	or (extr	a	orac	cti	<u>ce</u>	ques	<u>tions</u>
		1	а			9		а			17	d
		2	С			10		b			18	а
		3	С			11		а			19	С

-	u	2	u	17	u
2	С	10	b	18	а
3	С	11	а	19	С
4	b	12	С	20	С
5	d	13	d	21	d
6	d	14	d	22	b
7	С	15	С	23	b
8	С	16	С	24	d
				25	b

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L	Section 3	(Soluti	on)
61.	$\frac{35}{100}$ x = 80 + 60		$= \frac{37}{2 \times \frac{22}{7} - 1} = \frac{37}{\frac{44}{7} - 1} = 37 \times \frac{7}{37} = 7m$
	$x = 140 \times \frac{100}{35}$		∴ C = 2 Пr
	x = 400		$= 2 \times \frac{22}{7} \times 7 = 44 \text{ m}$
62.	Let $A = 6x$ $B = 5x$ $C = 4x$	68.	Let b = x metre \therefore l = x + 23
	15 x = 4800, x = 320 A - C = 6x - 4x		$\therefore \frac{\text{Perimeter}}{2} = l + b \qquad \therefore \frac{206}{2} = x + x + 23$
	A = C = 0x = 4x $= 2x$		$\therefore 103 = 2x + 23$
	= 2(320) = ₹640		∴ x = 40
63.	Let length of the flagpole = x		Length = 40, breadth = 63, Area = 2520 sqm
	$\mathbf{x} - \left(\frac{\mathbf{x}}{5} + \frac{\mathbf{x}}{4}\right) = 3$	69.	$(2a^3 - 3)(5a^3 - 2)$
	$\therefore \frac{11x}{20} = 3 \qquad \therefore x = 5\frac{5}{11} \text{ units}$		$= 10a^{6} - 4a^{3} - 15a^{3} + 6$ $= 10a^{6} - 19a^{3} + 6$
64.	Elected candidate got $\frac{62x}{100}$ votes	70.	$\sqrt{300} - \sqrt{48} + \sqrt{75} - \sqrt{149}$ = $\sqrt{100 \times 3} - \sqrt{16 \times 3} + \sqrt{25 \times 3} - \sqrt{49 \times 3}$
	other candidate got $\frac{38x}{100}$ votes.		$=\sqrt{3}(10-4+5-7)$
	$\therefore \frac{62x - 38x}{100} = 144$		$= 4\sqrt{3}$
	∴ x = 600	71.	$(32)^{\frac{-2}{5}} \div (125)^{\frac{-2}{3}}$
65.	Let the number be x		(2) $5 \times \frac{-2}{5} \div (5) 3 \times \frac{-2}{3}$
	∴ $\frac{(x+4) \times 5 - 20}{8} = 10$ ∴ $5x + 20 - 20 = 80$		$2^{-2} \div 5^{-2} = \left(\frac{2}{5}\right)^{-2} = \left(\frac{5}{2}\right)^2 = \frac{25}{4}$
	∴ x = 16	72.	$2\frac{1}{2} + 3\frac{5}{7} \times \frac{3}{13} - \frac{1}{2} \div 4$
66.	Let $a = 3x$, $b = 5x$		$= \frac{5}{2} + \frac{26}{7} \times \frac{3}{13} - \frac{1}{2} \times \frac{1}{4}$
	$\therefore \frac{a-b}{a+b} = \frac{3x-5x}{3x+5x} = \frac{-2x}{8x} = -\frac{1}{4}$		$= \frac{2}{2} + \frac{7}{7} + \frac{13}{13} + \frac{2}{2} + \frac{4}{4}$ $= \frac{5}{2} + \frac{6}{7} - \frac{1}{8} = \frac{140 + 96 - 14}{56} = \frac{222}{56}$
67.	2 ∏r – r = 37	73.	Sum of the age of parent 20 years back =
	$\therefore r(2\Pi - 1) = 37$	13.	$23 \times 2 = 46$
	$\mathbf{r} = \frac{37}{2\Pi - 1}$		Sum of one present age of My parent



Sto	I:9 Mental M	aths Competition® 18
8.	12x = 1140 + 660 12x = 1800 $x = \frac{1800}{12} = 150$ $r = 7 \text{ cm, height of cylinder} = 50 \times \frac{1}{2} = 25 \text{ cm}$	$\frac{x}{y} = \frac{9}{35} \times \frac{25}{30}$ $\frac{x}{y} = \frac{3}{14}$ 13. To get 4 th term apply 3n - 1 $\therefore 15^{th} \text{ term} \qquad n = 15$
	T.S.A. of cylinder = 2 Π r (r + h) = 2 × $\frac{22}{7}$ × 7 (7 + 25) = 44 × 32 = 1408 cm ²	 ∴ 3(15) - 1 = 45 - 1 = 44 14. Let Sania earn ₹ × every year ∴She spend (1/4 × x)
9. 10.	$\frac{6 \times 1 + 1 = 7}{10}, \frac{7 \times 2 + 2 = 16}{10}, \frac{16 \times 3 + 3 = 51}{16 \times 3 + 3 = 51}$ $51 \times 4 + 4 = 208$ $\therefore 208 \times 5 + 5 = 1045$ $\frac{(6.4 \times 5) + (6.5 \times 4) + 9}{10} = \frac{67}{10} = 6.7$	She Saves $\left(\frac{3}{4}\mathbf{x}\right)$ \therefore In 5 years she saved 5 = 90000 \therefore x = 24000 Mania earns = 24000 × 2 = 48000 per month in 5 years Mania earn = 5 × 48000 = 2,40,000
11.	No. of revolutions in 1 hr = $150 \times 60 = 9000$ distance travelled in 1 hr = 40 km = 40000 m distance travelled in 1 revolution = $\frac{40}{9}$ \therefore circumference = $\frac{40}{9}$ m = 4.44 km $\frac{4.44}{1000}$ = 0.044 km = 0.0044 km	Spent by Maria = $\frac{1}{3} \times 24000 = 80000$ Remaining amount = 1,60,000 15. 8 1 = 8000 ml 1 glass = 200 ml 8000 ml of juice can fill = 40 glasses. Glasses Watermelon
12.	let the original fraction be $\frac{x}{y}$ $\frac{x + \frac{200}{100} \times x}{y + \frac{150}{100} \times y} = \frac{9}{35}$ $\frac{x + 2x}{y + 1.5y} = \frac{9}{35}$ $\frac{3x}{2.5y} = \frac{9}{35}$ $\frac{x}{y} = \frac{9}{35} \times \frac{2.5}{3}$	5 $\frac{1}{2}$ 40 ? No of watermelons = 40 × $\frac{1}{2}$ ÷ 5 Ans = 4 16. Let the no. be x 3x - 0.5 x = 225 2.5 x = 225 $\therefore x = \frac{225 \times 10}{25} = 90$

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17.	Increase = 15% decrease = $\frac{1}{2} \times 100 = 5\%$		$y = \frac{6x}{5}$	
÷	Actual population increase = $(15 - 5)\% = 10^{\circ}$ Population in the beginning of year 2004 = 5900 + 590 = 6490	21.	Let original fraction $\frac{x-9}{x-5.5} = \frac{2}{3}$	n be $\frac{x-9}{x}$. 2x = 32
	Population in the beginning of year 2005 = 6490 + 649 = 7139		$\frac{2x - 18}{2x - 11} = \frac{2}{3}$	x = 16 7
18.	Let No. of Goat = x			\therefore Original fraction is $\frac{7}{16}$
	No of ducks = $\frac{40}{100} \times x = \frac{2}{5}x$ No of cows = $2 \times \frac{2x}{5} = \frac{4x}{5}$	22.	No. of students = $\frac{1}{2}$	$\frac{75}{100} \times 840 = 630$ adents = $\frac{70}{100} \times 630 = 441$
	Total no. of legs = 4(x) + $2\left(\frac{2x}{5}\right) + 4\left(\frac{4x}{5}\right)$			ts = 630 - 441 = 189
	$400 = \frac{4x + 4x + 16x}{5}$		No. Chinese stude:	nts = $\frac{2}{3} \times 189 = 126$
	$400 = \frac{40x}{5}$	23. Sp	eed = 390 = 65 km/l	hr 0.65 km = 650 m
	$\therefore \qquad x = 50$ $\therefore \qquad \text{No. of duck} = 20$		$= \frac{65 \times 10}{3600}$	$\frac{000}{0}$ m/s time = $\frac{\frac{650}{325}}{18}$
19.	Ben's speed = 96 km/hr		$=\frac{325}{18}$	$= \frac{650 \times 18}{325}$ $= 36 \text{ second}$
	Balia's speed = (1.5×60) km/hr Jack's speed = (1.650×60) km/hr	24.	Area of triangle =	$\frac{1}{2} \times 24 \times 34$
	= 99 km/hr ∴The difference = 99 – 90 = 9 km/hr		= ² Remaining area =	408 cm ² 8100 - 408 = 7692 cm ²
20.	$y + \frac{2}{3}y = 2x$	25.	y kg.	e x kg tin can accommodate by
	$\frac{5y}{3} = 2x$		$\frac{3}{4}y + x = 4$	
	$y = 2x \times \frac{3}{5}$		$\frac{3}{5}y + x = 3.25$ $\frac{3y}{20} = 0.75$	
			$y = \frac{0.75 \times 20}{3}$	
			y = 5. x = 0.25 kg = 250) gm.

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	Name									rase o spon	ses.	ely to d	r. :hange y mark					
			Father	s Name	9						sheet.							
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Mental Maths Competition®

- Q. No. 1 to 50 are based on basic. Calculation questions related to Addition, Subtraction, Multiplication and Division, doubling and halving.
- (2) Student should know multiplication tables from 2 to 30.
- (3) Number pattern. Doubling & Halving.
- (4) Mixed operations (BODMAS), Decimal Fraction, Fractions, time
- (5) L.C.M & H.C.F., divisibility of 2, 3, 4, 5, 6, 8, 9, 10, 11
- (6) Integers (Add, Subtract, Multiply, Divide) Mixed sums
- (7) Find day and date in a given calender year.
- (8) Calculation of percentage, Average, Ratio, simple equation, discount, profit & Loss percentage, speed distance
- (9) Square and Square root from 1 to 50, Cubing a number from 1 to 20 & cuberoots.
- (10) Surds, Identities and expansion
- (11) Area and perimeter of square and rectangle. Angles of a triangle, circumference of a circle.

