Mental Maths Competition[®]

Organized by Global Maths Science Education[®]

In Association with Math Vision Pte Ltd., Singapore.

MOCK TEST

Std. 6

Instructions for the Competition

Total Marks : 200

Total No of questions: 75

1. Time:1½hr

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.
- [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 test fundamental concept covered in topic listed below. Each question carries 3 marks.
- 6. [Section 3] Here questions are challenging & 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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Mental Maths Competition.

1

aths Calculation) 3 A 4 2 + 5 3 1 B 9 2 C 1 $A + B + C = \Box$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$9 2 \boxed{C} 1$ $A + B + C = $
$A + B + C = \square$
(a) 21 (b) 22 (c) 23 (d) 24
<u>- 3 8 1 3</u>
<u>4 4 C 9</u>
A + B + C =
(a) 5 (b) 6
(c) 8 (d) 9
Which of following is 900 less
than 2154
(a) 1354 (b) 1254
(c) 1154 (d) 1454
• 2419 is hundreds more
than 1219.
(a) 2 (b) 12
(c) 120 (d) 1200
. 41
<u>× 7 1</u>
(a) 2711 (b) 2811
(0) 2011

Mental Maths Competition.

12. 6 1 $\times 4 8$ (a) 2928 (b) 2938 (c) 2948 (d) 2958 13. 9 1 3 $\times 4 1 3$ (a) 377869 (b) 377769 (c) 37869 (b) 377769 (c) 37869 (d) 377069 (a) 165908 (b) 165967 (c) 165968 (d) 166968 (a) 165908 (b) 165967 (c) 15008 (d) 166968 (a) 165908 (d) 166968 (a) $\frac{2}{12}$ (b) $\frac{4}{24}$	3
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14. 4 5 1	
15. $22\overline{)2904}$ 16. 16.	
$\begin{array}{c} \underline{} \\ \underline{} \\ (a) \ 165908 \\ (c) \ 165968 \\ (d) \ 166968 \\ 15. \ 22 \overline{)2904} \end{array} \qquad (b) \ 165967 \\ (d) \ 166968 \\ (d) \ 166968 \\ (d) \ 166968 \\ (a) \ \frac{2}{12} \\ (b) \ \frac{4}{24} \end{array}$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(c) 165968 (d) 166968 22. $\frac{1}{6} + \frac{1}{8} = \boxed{1}$ (a) $\frac{2}{12}$ (b) $\frac{4}{24}$	
15. $22\overline{)2904}$ (a) $\frac{2}{12}$ (b) $\frac{4}{24}$	
15. $22\overline{)2904}$ (a) $\overline{12}$ (b) $\overline{24}$	
,	
(a) 136 (b) 132 (c) $\frac{6}{18}$ (d) $\frac{7}{24}$	
(c) 133 (d) 134 18 24	
16. 18)9468 23. $\frac{1}{16} - \frac{1}{8} = \square$	
(a) 425 (b) 526 (c) 2 (b) 1	
(c) 525 (d) 536 (a) $\frac{1}{8}$ (b) $\frac{1}{16}$	
$(c) \frac{2}{16}$ $(d) \frac{4}{12}$	
17. $(8)32) \times (4 \times 3) - (9)45)$	
(a) 53 (b) 48 (c) 42 (c) 42 (c) 42 (c) $24 + 1$	
(c) 43 (d) 42 $247 - 3 = 1$	
18. $[9 \times 9] - [4 \times 7] - [9 \times 5]$ (a) $\frac{23}{100}$ (b) $\frac{65}{100}$	
(a) 53 (b) 9 (a) 21 (b) 21	
(c) 7 (d) 8 (c) $\frac{25}{14}$ (d) $\frac{12}{28}$	

25.	$\frac{4}{9}$, $\frac{1}{3}$, $\frac{1}{6}$, $\frac{4}{6}$ Th	e smallest	30.	$\frac{9}{8} \times \frac{4}{3} \times \frac{12}{5} = \boxed{}$	<u>]</u> <u>4</u>
	fraction is $^-$			(a) $\frac{18}{5}$	(b) $\frac{22}{80}$
	(a) $\frac{1}{3}$	(b) $\frac{1}{6}$		(c) $\frac{40}{120}$	(d) $\frac{360}{24}$
	(c) $\frac{4}{6}$	(d) $\frac{4}{9}$	31.	$\frac{5}{7} \div \frac{14}{35} = \square$	
26.	$\frac{8}{5}, \frac{3}{15}, \frac{1}{15}, \frac{6}{5}$ the	ne greatest		(a) $\frac{16}{80}$	(b) $\frac{25}{14}$
	fraction is $-$			(c) $\frac{36}{28}$	(d) $\frac{45}{30}$
	(a) $\frac{8}{5}$	(b) $\frac{3}{15}$	32.	$\frac{9}{100} \div \frac{4}{100} = \square$	
	(c) $\frac{1}{15}$	(d) $\frac{6}{5}$		80 56 \square (a) $\frac{36}{540}$	(b) $\frac{36}{256}$
27.	$\frac{1}{3} = \frac{\square}{21}$			(c) $\frac{60}{80}$	(d) $\frac{63}{40}$
	The missing nur	nber is		1	
	(a) 8	(b) 7	33.	$7\frac{1}{3} \times 15 = $	
	(c) 4	(d) 21		(a) 12	(b) 35
28.	$\frac{4}{5} = \frac{28}{\Box}$			(c) 105	(d) 110
	(a) 40	(b) 28	34.	$3\frac{1}{5} \times 25 =$	
	(c) 30	(d) 35		(a) 80	(b) 72
				(c) $\frac{83}{3}$	(d) $\frac{38}{3}$
29.	$\frac{3}{4} \times \frac{5}{6} \times \frac{16}{7} = \boxed{}$	<u>]</u>]		·~/ 5	····/ 5
	(a) $\frac{135}{240}$	(b) $\frac{130}{160}$			
	(c) $\frac{10}{7}$	(d) $\frac{66}{48}$			

35.	5 kg 450 grm +	- 3 kg 750 grm		SECTIO	N 2
	= kø			Montal Math	s Concente)
	(a) 8 kg 200	(b) 9 kg 400		Mental Math	s concepts)
	(c) 9 kg 200	(d) $9 \text{ kg} 500$	41.	19 hundreds	s 18 ones – 🛟
	(-)8	()8		= 584	
36.	9 <i>l</i> 375 m <i>l</i> = 2 <i>l</i>	820 m <i>l</i> +		Which the fo	llowing number
	(a) 6.555 <i>l</i>	(b) 7.550 <i>l</i>		represents \downarrow	*
	(c) 7.655 <i>l</i>	(d) 7.250 ml		(a) 1354	(b) 1334
				(c) 1444	(d) 1364
37.	5 hr 49 min + 2	2 hrs 43 min =			
	hrs		42.	A – 4206 = 5	5523
	(a) 8:50 hr	(b) 8:32 hr		A = B + 729	
	(c) 8:52 hr	(d) 9:10 hr		Find the value	ue of B
				(a) 9000	(b) 9100
38.	6 hrs 29 min –	2hrs 30 min =		(c) 8900	(d) 8500
	hrs				
	(a) 4 hr 39 min	(b) 3 hr 59 min	43.	The L.C.M of	f 4, 6 and 8 is
	(c) 8 hr 30 min	(d) 4 hr 59 min		(a) 48	(b) 144
				(c) 24	(d) 72
39.	Study the num	iber pattern			f_{10} 16 and θ_{10}
	what will be th	e next	44.	Ine H.C.F. d	of 12, 16 and 8 is
	number.				
	28, 55, 109,			(a) 4	(b) 8
	(a) 214	(b) 215		(c) 6	(d) 2
	(c) 213	(d) 217	45.	The sum of o	divisor of 27 is
				(a) 40	(b) 36
				(c) 38	(d) 39
40.	510, 532, 548,			TT 71 1 C . 1	C 11 ·
	(a) 564	(b) 560	46.	Which of the	following
	(c) 600	(d) 575		number is e	xactly divisible
				by 6	
				(a) 834	(b) 934
				(c) 734	(d) 634

4-	TT71 1 0 1 0 1		54.	11.4 × 1.6 =	0
47.	Which of the foll	owing		(a) 15.24	(b) 18.24
	number exactly	divisible by 8		(c) 17.84	(d) 18.54
	(a) 5033	(b) 4188		(<i>'</i>	. ,
	(c) 3365	(d) 3448	55.	7.86 ÷ 0.7 =	
19	157 heats grom	- ma		(a) 11.22	(b) 12.28
то.	457 fiecto grain	IIIg		(c) 10.18	(d) 13.22
	(a) 4570000	(D) 45700			
	(C) 43700000	(a) 437000000	56.	4 × [21 + {5 + 6	(7-3)}] =
49.	543 decaliter =			(a) 200	(b) 240
	centilitre			(c) 100	(d) 180
	(a) 543000	(b) 5 43			
	(c) 54.3	(d) 5430000	57.	[8 + (- 9)] - [4 ×	– 2] =
		(4) 0 100000		(a) – 8	(b) 10
50.	250 metre =	hecto		(c) 7	(d) – 9
	metre		EQ	050/ of $484 -$	
	(a) 25	(b) 250	50.	2370 01 464	(1) 110
	(c) 0.25	(d) 2.5		(a) 121	(b) 118 (d) 112
				(C) 120	(u) 112
51.	In 5 innings Rar	nesh scored	59.	15% of 90 =	
	25, 37, 55, 3 an	d 60. Find his		(a) 13.5	(b) 14
	average score?			(c) 20	(d) 12.5
	(a) 32	(b) 36			. ,
	(c) 42	(d) 34	60.	50% of 47 =	
				(a) 26.5	(b) 24
52.	4.5 + 19.8 + 32.	568 =		(c) 25	(d) 23.5
	(a) 56.841	(b) 56.828			
	(c) 56.868	(d) 56.851			
53.	19.682 - 4.46 =				
	(a) 16.538	(b) 18.639			
	(c) 15.222	(d) 16.232			

		SECTION 3 (Men	tal Maths Challa	ange) 7
61.	36 pupil w more girls t altogether?	vere divided equal than boys in each	ly among 6 grou group. How man	ps. There were 2 y boys were there
	(a) 24	(b) 12	(c) 18	(d) 10
62.	A + B = 360 B + C = 280 B = 3 times Find the va	00 00 6 of C. Ilue of A.		
	(a) 1500	(b) 1600	(c) 1700	(d) 1400
63.	Jason and to Kent. Bo How many	Kent had a total 1 th of them had ar stamps did kent h	6 stamps. Jason equal number of nave at first?	then gave 4 stamps f stamps in the end.
	(a) 16	(b) 4	(c) 8	(d) 12
64.	A Jug can l bottles. Fin	hold 5 <i>l</i> of water. 2 Id the volume of b	Jugs can hold as ottle?	s much water as 5
	(a) 3 <i>l</i>	(b) 2 <i>l</i>	(c) 1 <i>l</i>	(d) 5 <i>l</i>
65.	Pintu has t stamps. Ho	hrice as many sta w many stamps t	mps as Chintu. If hey have altogeth	f Chintu has 29 her?
	(a) 116	(b) 115	(c) 114	(d) 231





		(Extra pra	actise question)	10
1.	Mrs. Sharn could she s	na took 6 minute new in 2 hours at 1	to sew 5 buttons. the same rate?	. How many buttons
	(a) 50	(b) 60	(c) 80	(d) 100
2.	At the sale, much Mrs.	shirts were sold a Joshi pay for 38 s	at 3 for 675 and shirts?	5 for ₹ 900, how
	(a) 6875	(b) 7075	(c) 6975	(d) 5115
3.	A square ta such tables seated?	able seat 4 people s are put end to end	with 1 person or nd in a row, how	n each side. If 20 many people can be
	(a) 80	(b) 60	(c) 42	(d) 48
4.	James has an equal nu some boxes	36 blue marbles umber of blue and s. How many boxe	and 54 red marb 1 equal number o es does he need a	les. He want to put of red marbles into at most?
	(a) 36	(b) 9	(c) 6	(d) 18
5.	₹ 36 were s	hared among three	ee girls. Sarika ro	eceived $\frac{1}{6}$ of the
	money and	Amita received $\frac{1}{3}$	times more tha	n Sarika.
	If Mayuri re share?	eceived the rest of	the money. How	y much was Mayuri's
	(a) ₹18	(b)₹17	(c) ₹21	(d)₹22







13 **16.** What will be 5th term in the given series 204, 324, 444, (b) 574 (c) 684 (a) 584 (d) 804 17. Which of the following number is divisible by 11 (a) 5 3 3 5 1 4 (b) 3 4 2 2 1 6 (c) 9 0 1 8 0 0 (d) 4 4 2 5 6 3 18. Find the missing number $[12 + 11 \times] \div 12 = 12$ (a) 6 (b) 12 (c) 10 (d) 11 19. There are eight number cards are as shown below. If 3 number cards are drawn randomly each time. How many ways can the number cards form a sum of 9? 2 1 3 4 5 6 7 8 (a) 3 (c) 1 (b) 4 (d) 2 20. How many 2 digit number, smaller than 90 have sum of their digits equal to 8. (a) 8 (b) 7 (c) 6 (d) 5



		<u>Answer</u>	Sheet			1
1	b	26	а	51	b	
2	d	27	b	52	С	
3	С	28	d	53	С	
4	b	29	С	54	b	
5	а	30	а	55	а	
6	С	31	b	56	а	
7	d	32	d	57	С	
8	С	33	d	58	а	
9	b	34	а	59	а	
10	b	35	С	60	d	
11	С	36	а	61	b	
12	а	37	b	62	а	
13	d	38	b	63	b	
14	С	39	d	64	b	
15	b	40	а	65	а	
16	b	41	b	66	а	
17	С	42	а	67	С	
18	d	43	С	68	b	
19	d	44	а	69	d	
20	b	45	а	70	С	
21	b	46	а	71	d	
22	d	47	d	72	b	
23	С	48	С	73	а	
24	b	49	а	74	а	
25	b	50	d	75	С	

AIISWO IUI <u>extra practice</u> estions 31 3 чu

1	d	9	b	17	d
2	С	10	а	18	b
3	С	11	b	19	а
4	d	12	b	20	а
5	d	13	С	21	d
6	а	14	b	22	b
7	b	15	b	23	С
8	а	16	С	24	а
				25	d

	Section 3	<u>(So</u>	olution)	16
61)	 36 ÷ 6 = 6 Hence 6 pupils in each group. 2 more girls han boys in each group. ∴ No. of girls in each group = 4 No. of boys in each group = 2 ∴ Total No. of boys = 2 × 6 = 12 	69)		
62)	$B = 3C$ $B + C = 2800$ \downarrow $3C + C = 2800$ $C = 2800 \div 4 = 700$ $B = 2100$ $A + B = 3600$ $A = 3600 - 2100$ $A = 1500$	70)	$\frac{1}{12} = 3 - 1 = 2$ Total no. of pupils = 80 pupils wear glasses = $\frac{2}{5} \times 80$ = 32 No. of girls wearing glasses = $\frac{1}{4} \times 32$ = 8 No. of boys wearing glasses = 32 - 8	
63)	At the end, Jason $\rightarrow 8$ Kent $\rightarrow 8$ In the beginning Jason $8 + 4 = 12$ Kent $8 - 4 = 4$	71)	$= 24$ 10.30 am to 4 pm = $5\frac{1}{2}$ hrs 4 pm to 5:30 pm = $1\frac{1}{2}$ hrs.	
64)	One Jug \rightarrow 5 litre Two Jugs = 5 × 2 = 10 litre 5 bottles = 2 Jugs = 10 litre \therefore 1 bottle = 10 ÷ 5 = 2 litre.		Amount to be paid = $(5\frac{1}{2} \times 35) + (1\frac{1}{2} \times 50)$ = 192.5 + 75 = 267.5	
65) 66)	Chintu $\rightarrow 29$ stamps Pintu $\rightarrow 29 \times 3 = 87$ stamps Total stamps $= 29 + 87$ = 116 Box C $\rightarrow 10$ kg. Box A $\rightarrow 5 \times 10 = 50$ kg.	72)	Rope X \rightarrow 3.2 m Rope Y \rightarrow $\frac{3}{4} \times 3.2 = 2.4$ m Rope Z \rightarrow $\frac{1}{4} \times 2.4 = 0.6$ m Total length = 3.2 + 2.4 + 0.6 = 6.2 m	
67)	Box R \rightarrow 50 - 8 = 42 kg. Money spent on camera and bag $= \frac{1}{2} + \frac{3}{8}$ $= \frac{4}{8} + \frac{3}{8}$ $= \frac{7}{8}$ Fraction of money she have left $= 1 - \frac{7}{8}$ $= \frac{8}{8} - \frac{7}{8}$	73) 74)	No. of teachers = 6 No. of students = 3×30 = 90 Entrance fee of teachers = 6×15 = 90 Entrance fee of 90 students = $600 - 60 - 90$ = 450 \therefore Entrance fee. of each student = $450 \div 90$ = $₹5$ $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$	
68)	$= \frac{1}{8}$ 1 notebook = 25 4 notebooks = 25 × 4 = 100 4 notebooks and 6 pens = 208 \therefore 6 pens = 208 - 100 = 108 \therefore 1 pen = 108 ÷ 6 = 18 Cost of 10 pens = 18×10 = 180	75)	$\frac{1}{2} \text{ of the book} = 60 \text{ pages}$ ∴ No. of pages in the book $= 60 \times 2$ $= 120.$ $[90 - {50 ÷ (30 ÷ 3)}] - 28$ $= [90 - {50 ÷ 10}] - 28$ = [90 - 5] - 28 = 85 - 28 = 57	

	Extra Practice Qu	est	ions (Solution)	17
1)	2 hours = 120 minutes 6 minutes = 5 buttons	12)	Cost of $\frac{1}{2}$ kg sugar = ₹ 16	
	1 minute = $\frac{5}{6}$ buttons		Cost of 1 kg sugar = 16×2 = ₹ 32 Cost of 5 kg sugar = 5×32	
	120 minute = $\frac{5}{6} \times 120$ = 100 buttons.		= ₹ 160 Cost of $\frac{1}{2}$ kg tea powder = ₹ 50	
2)	38 shirts = 7 sets of 5 shirts + 1 set of 3	<i>.</i>	Cost of 1 kg tea powder	
	∴ Amount paid for 38 shirts = $(7 \times 900) + (1 \times 675)$ = $6300 + 675$ = 6975		$= 4 \times 50$ = ₹ 200 Cost of 2 kg tea powder = 2 × 200 = ₹ 400	
3)	In this arrangement at extreme two tables, 3		Total cost = 160 + 400 = ₹ 560)
	persons each can be seated where as at other 18 tables only 2 persons each can be seated. \therefore Total no. of people = $2 \times 3 + 18 \times 2$ = $6 + 36$ = 42	13)	Perimeter of figure = 9 + 4 + 15 + 20 + 12 + 12 = 72 m	
4)	H.C.F of 36 and 54 is 18. Maximum No. of boxes required is 18 such than he can pack 2 blue and 3 red marbles in each box.	14)	2 hrs 42 minutes = $2 \times 60 + 42$ = 162 minutes 9 cars $\rightarrow 162$ minutes 1 car $\rightarrow 162 \div 9 = 18$ min. 10 cars $\rightarrow 10 \times 18$	
5)	Sarika $\rightarrow \frac{1}{6} \times 36 = ₹ 6$		= 180 minutes = 3 hrs.	
	Amita $\rightarrow 6 + \frac{1}{3} \times 6$ = 6 + 2	15)	$4 \times 2 = 8, \qquad 8+7 = 15$ $9 \times 2 = 18, \qquad 18+7 = 25$ $20 \times 2 = 40, \qquad 40+7 = 47$	
0	= ₹ 8Mayuri = 36 - (6 + 8)= ₹ 22	16)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	
6)	$6738 \div 6 = 1123$	17)	Option (d)	
7) 8)	22 cm $(\sqrt{361} + \sqrt{225}) - (\sqrt{9} + \sqrt{81})$		$\begin{array}{c} 4 & 2 & 5 & 6 & 3 \\ 4 & + & 2 & + & 6 & = & 12 \\ 12 & - & 12 & = & 0 \end{array}$ Hence divisibility test of 11 is satisfied	
	= (19 + 15) - (3 + 9) = 34 - 12 = 22 20 15 - 25	18)	Option (b) $[12 + 11 \times 12] \div 12$ $= [12 + 132] \div 12$ $= 144 \div 12$	
9)	$\frac{1}{100} \times 90 + \frac{1}{100} \times 70 + \frac{1}{100} \times 900$ $= 18 + 10.5 + 225$ $= 253.5$	19)	= 12 3 possible combinations are	
10)	37.04 - 8.6 37.04		1, 2, 0 1, 3, 5 2, 3, 4	
	$\frac{-8.60}{28.44} = 24 + 4.44$	20)	8 possible number are 17, 26, 35, 44, 53, 62, 71, 80.	
11)	$\sqrt{6889} = 83$			

18

21) Youngest \Rightarrow Y Second \Rightarrow Y + 50 \Rightarrow Y + 50 + 75 Eldest = Y + 125 Y + Y + 50 + Y + 125 =475 3Y + 175 = 475 3Y = 475 - 1753Y = 300Y = 300Y = 100300 ÷ 3 Younger brother gets ₹ 100. 22) 1, 4, 7, 10 difference of 3 between each consecutive term. 20th term = $1 + 19 \times 3$ = 1 + 571 + 57 = 58 23) a 🚫 b = a × 4 – b × 3 5 🚫 6 = 5 × 4 – 6 × 3 20 - 18 = 2 = 24) Excluding 1st January 30 No. of days in January = 30 = 28 No. of days in February No. of days till $2\underline{1^{st}}$ March = 21Total = 79 days 79 ÷ 7 gives remainder 2 3rd day after Thursday is 'Saturday'. 25) Amit \rightarrow 8 yrs 8 months Ajit \rightarrow 2 × (8 yrs 8 months) \rightarrow 16 yrs 16 months \rightarrow 17 yrs 4 months Sujit \rightarrow (17 yrs 4 months) - (2 yrs 5 months) = 14 yrs 11 months. After 3 months Sujit will be 15 yrs 2 months

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