# Mental Maths Competition<sup>®</sup>

Organized by Global Maths Science Education<sup>®</sup>

*In Association with* Math Vision Pte Ltd., Singapore.

MOCK TEST

## Std. 5

### **Instructions for the Competition**

Total Marks : 200

Total No of questions: 75

- 1. Time :  $1\frac{1}{2}hr$
- 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.
- [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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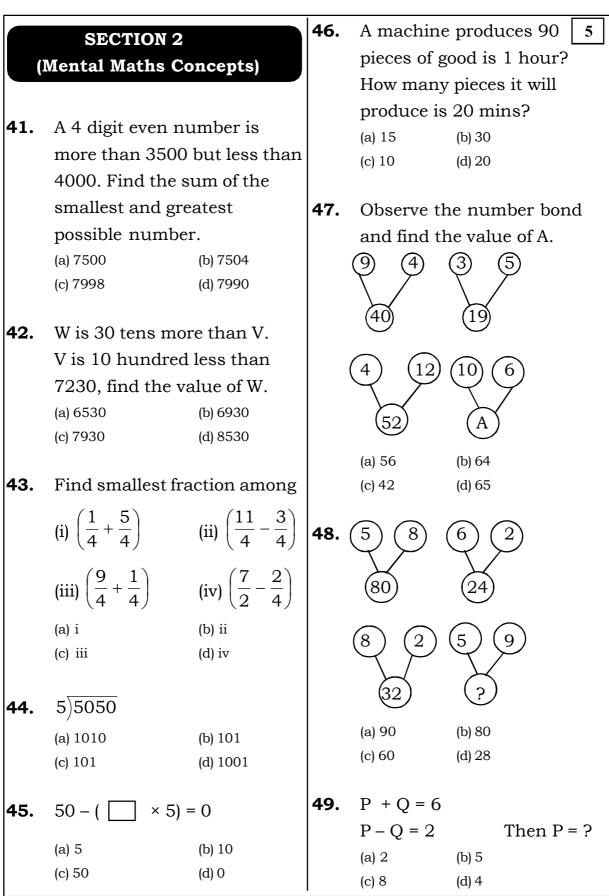
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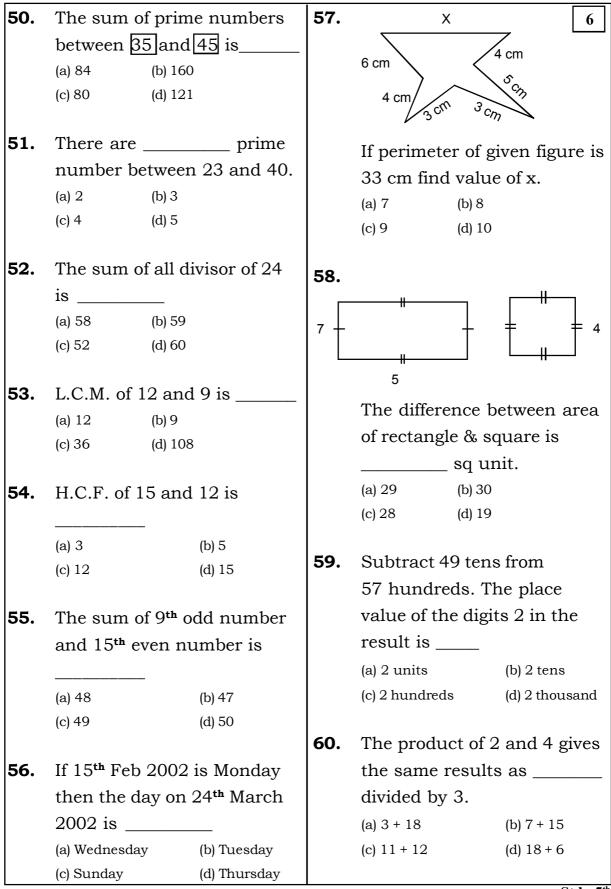
	SE	CTION 1 (Men	tal Mat	ths C	alculation	2
1.	51612 + 913	341 =	9.	(100	) – 72) + (10	)0 + 22) =
	(a) 122853	(b) 132953				
	(c) 142953	(d) 152853		(a) 25	50	(b) 150
				(c) 35	50	(d) 450
2.	91243 – 982	4 =				
	(a) 81419	(b) 71319	10.		2243	
	(c) 61428	(d) 82319		+	1319	
				+	1243	
3.	85123 + 948	; =		+	1251	
	(a) 84071	(b) 86071		+	3123	
	(c) 76051	(d) 85071				
				(a) 91		(b) 8174
4.	24863 – 312	6 =		(c) 92		(d) 9179
	(a) 21747	(b) 31437		( )		( )
	(c) 11747	(d) 21737	11.		4123	
				+	1359	
5.	9132 + 4136		_	+		
	(a) 13868	(b) 13568		+		
	(c) 12868	(d) 12888				
				+	3123	
6.	2248 + 2000	- 600 =	-			
	(a) 2618	(b) 3648		(a) 11		(b) 12581
	(c) 3638	(d) 5648		(c) 11	.661	(d) 11582
7.	2461 – (300	+ 800) =	12.	(9 +	8 + 3 + 4 +	8 + 3) +
	(a) 1261	(b) 3561		= 40	)	
	(c) 1361	(d) 3661		(a) 8		(b) 5
				(c) 7		(d) 10
8.	(100 – 36) + (	(100 – 25) =				
			13.	(8 +	3 + 2 + 3 +	2) + 📃 = 25
	(a) 159	(b) 139		(a) 10	)	(b) 6
	(c) 169	(d) 149		(c) 12	2	(d) 7
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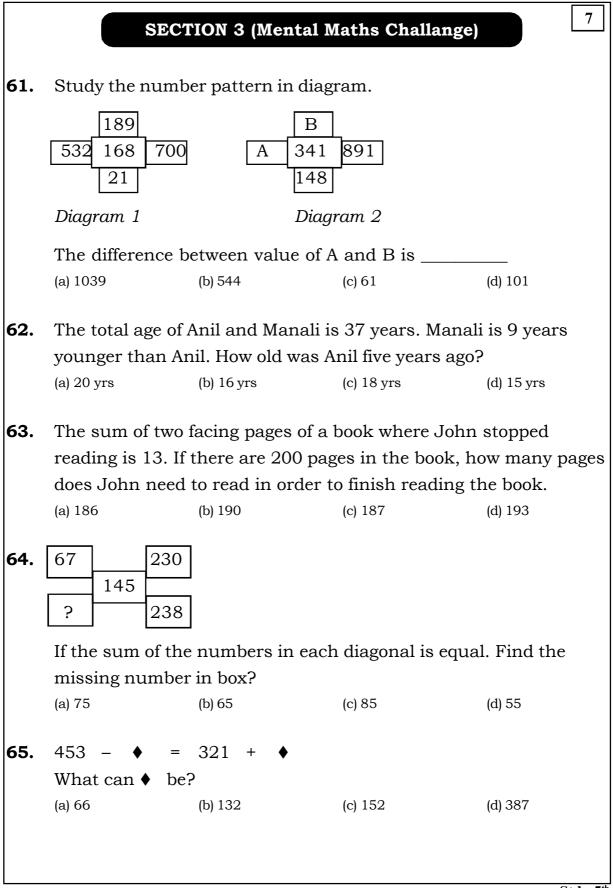
					3
14.	27 × 24 =		22.	2727 ÷ 9 =	
	(a) 648	(b) 442		(a) 303	(b) 403
	(c) 637	(d) 658		(c) 503	(d) 301
15.	95 × 97 =		23.	If 1936 is divide	ed by 3,
	(a) 9426	(b) 9285		leaves remaine	ler as
	(c) 9215	(d) 9556		(a) 4	(b) 1
				(c) 3	(d) 8
16.	4134 × 40 =				
	(a) 165360	(b) 155340	24.	If 4338 is divide	ed by 5,
	(c) 485260	(d) 154340		leaves remaind	er
				(a) 4	(b) 3
17.	3503 × 50 =			(c) 6	(d) 6
	(a) 144250	(b) 164250			
	(c) 132350	(d) 175150	25.	double of 593 i	S
				(a) 1186	(b) 1886
18.	8254 × 60 =			(c) 2186	(d) 1086
	(a) 483260				
	(c) 411250	(d) 412560	26.	half of 672 is $\_$	
10				(a) 436	(b) 336
19.	450 ÷ 50 =			(c) 136	(d) 116
	(a) 1	(b) 4			
	(c) 9	(d) 5	27.	Square of 23 is	
				(a) 429	(b) 529
20.	600 ÷ 25 =			(c) 328	(d) 528
	(a) 23	(b) 24			
	(c) 22	(d) 21	28.	Square of 29 is	
01	1040 - 4			(a) 741	(b) 461
21.	1940 ÷ 4 =			(c) 841	(d) 361
	(a) 485	(b) 235			
	(c) 158	(d) 135	29.	9 × 30 + =	400
				(a) 140	(b) 130
				(c) 120	(d) none of this
			I		Std • 5th

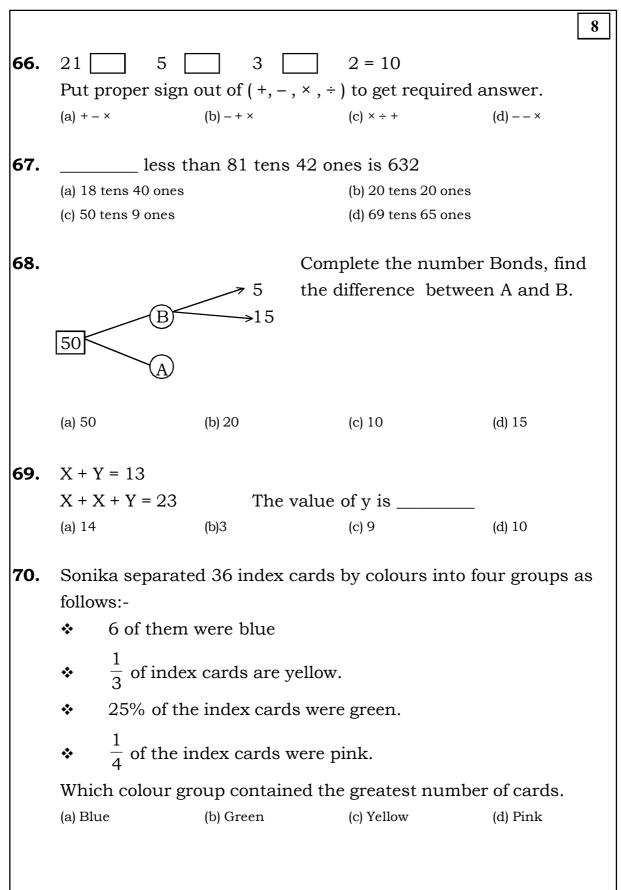
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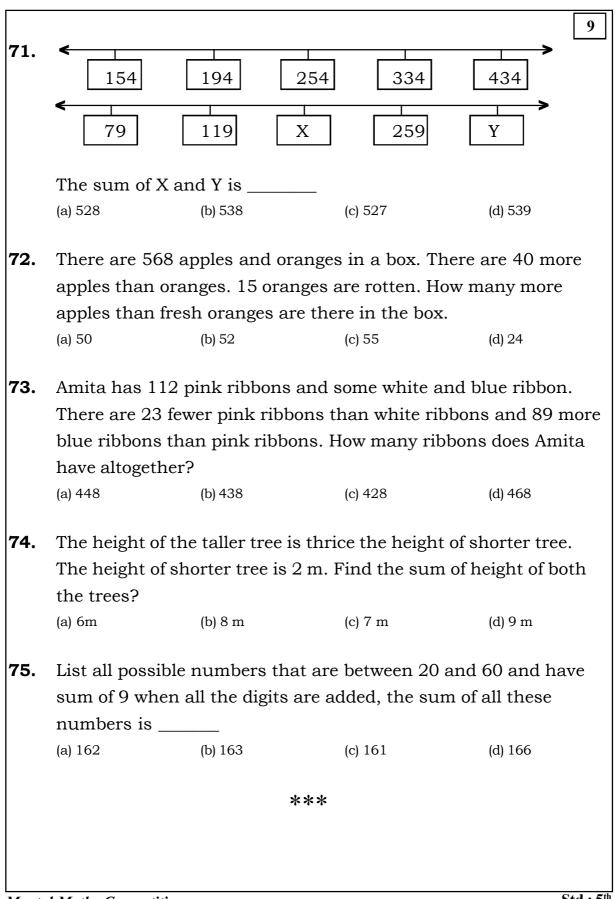
30.	7 × 60 – 🗌	=380	38.	(95 × 10) + (	(12 × 100) = 4
				(a) 2150	(b) 10500
	(a) 20	(b) 30		(c) 1250	(d) 10800
	(c) 40	(d) 50			
		C 77	39.	Twelve time	es of 6 reduced by
31.		- square of 7 =		2 times of 8	s we get
	(a) 13	(b) 15		(a) 56	(b) 66
	(c) 12	(d) 14		(c) 76	(d) 86
32.	4 times of 8 -	– square of 4 =	40.	Five times o	of 8 increased by
	(a) 8	(b) 16			5 we get
	(c) 24	(d) 0		(a) 100	(b) 20
				(a) 100 (c) 50	(d) 60
33.	3 times of 9	- square of 2 =		(0) 00	(4) 00
	(a) 31	(b) 27			
	(c) 24	(d) 23			
34.	5 times of 8 -	- square of 1 =			
	(a) 38	(b) 42			
	(c) 39	(d) 41			
35.	(96 × 100) – (	(37 × 10) =			
	(a) 9230	(b) 9970			
	(c) 8230	(d) 9320			
36.	(56 × 100) – (	(35 × 100) =			
	(a) 2200	(b) 2100			
	(c) 220	(d) 210			
37.	(25 × 100) – (	(12 × 10 ) =			
	(a) 130	(b) 1300			
	(c) 2390	(d) 2380			
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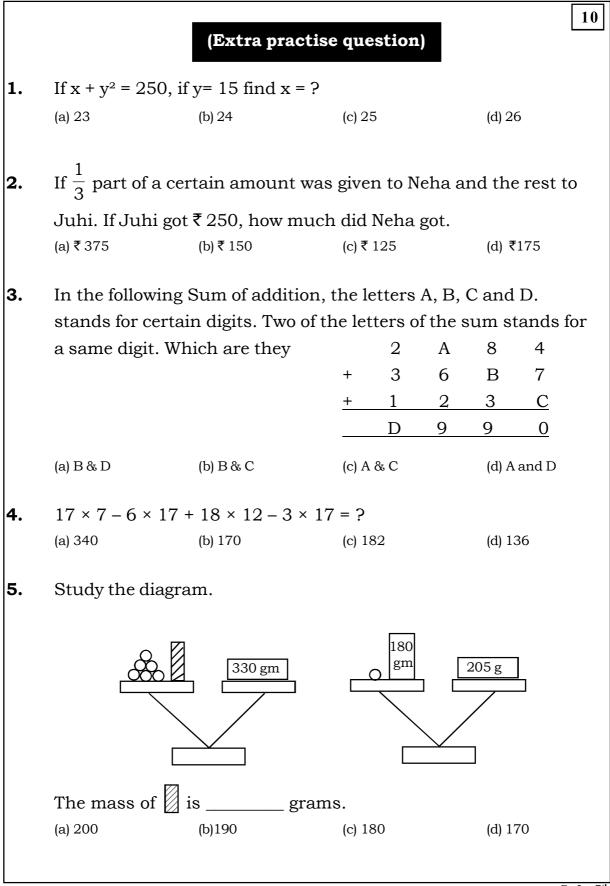










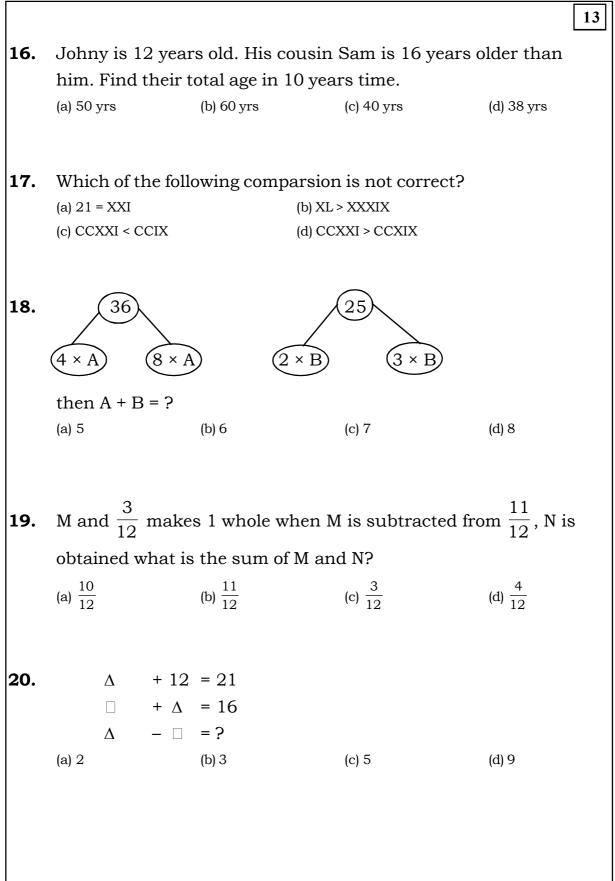


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Std: 5<sup>th</sup>

(-) 100	(1) 100	,	170	(1) 100
(a) 190	(b) 180	(C	) 170	(d) 160
Harsh	it chose a certai	n number, the	en he sul	otracted 20 from
then h	ne added 50 to th	at difference.	His fina	l result was 20
What	number did Hars	shit choose at	the begi	nning.
(a) 279	(b) 169	(c	) 179	(d) 268
A farn	ner built a fence	around his so	quare plo	ot. He used 27
pots o	n each side of a	square. How	many po	ts did he need
altoge	ther?			
(a) 100	(b) 104	(c	) 106	(d) 108
A how	is 2 yrs 5 month	a ald Uis aigt	or Anii i	$\sim 0$ veora $10$
•	15 2 yrs 5 month	5 010. 1115 5150	ci miu i	5 2 years 10
month	selder to him I	Jow old in An	1	
	ns elder to him. H			
(a) 4 yrs	10 months	(b) 5 years 3 mor	nths	
(a) 4 yrs			nths	
(a) 4 yrs (c) 5 yrs	10 months	(b) 5 years 3 mor (d) 5 years 10 mo	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months	(b) 5 years 3 mon (d) 5 years 10 mo of interview ti	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule o	(b) 5 years 3 mon (d) 5 years 10 mo of interview ti	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule of s the time of 5th	(b) 5 years 3 mon (d) 5 years 10 mon of interview times the second secon	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule of s the time of 5th Interview	(b) 5 years 3 mon (d) 5 years 10 mon of interview time interview. <b>Time</b>	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule of s the time of 5th Interview 1st	(b) 5 years 3 mon (d) 5 years 10 mon of interview time interview. <b>Time</b> 1:00	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule of s the time of 5th Interview 1st 2nd	(b) 5 years 3 mon (d) 5 years 10 mon of interview time interview. <b>Time</b> 1:00 1:40	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule of s the time of 5th Interview 1st 2nd 3rd	(b) 5 years 3 mon (d) 5 years 10 mon of interview time interview. <b>Time</b> 1:00 1:40 2:20	nths onths	ne pattern cont
(a) 4 yrs (c) 5 yrs Look a	10 months 5 months at this schedule of s the time of 5th Interview 1st 2nd 3rd 4th	(b) 5 years 3 mon (d) 5 years 10 mon of interview tir interview. <b>Time</b> 1:00 1:40 2:20 3:00	nths onths	
(a) 4 yrs (c) 5 yrs Look a what i	10 months 5 months at this schedule of s the time of 5th Interview 1st 2nd 3rd 4th	(b) 5 years 3 mon (d) 5 years 10 mon of interview tir interview. <b>Time</b> 1:00 1:40 2:20 3:00	nths onths mes. If th	

11. A store has sale on cans of tennis balls. For every 2 cans bought you get 1 can free. When you came home you had 18 balls in your shopping bag. If each can has 3 balls. How many tennis balls did you get free? (a) 9 (b) 8 (c) 7 (d) 6 12. Mimi took part in an exercise programme. She run for 420 seconds, walked for half an hour and swam for 45 minutes. For how many minutes she has finished an exercise programme? (a) 71 (b) 75 (c) 82 (d) 81 13. Brian ate 4 slice of large size pizza and his father ate 6 slice of it. If his brother ate  $\frac{1}{2}$  of the pizza remaining and there were still 2 slices left. How many slices of pizza were there as first? (a) 12 (b) 14 (c) 16 (d) 24 14. A stapler and a book cost ₹ 95. Sandy bought 3 book for ₹ 51. How much did the stapler cost? (a) ₹ 51 (b)₹78 (c)₹68 (d)₹88 15. Rakesh made three times paper boats as Nagesh. Nagesh made twice as many paper boats as Yogesh. If Nagesh made 28 paper boats. How many paper boats did the three children make altogether? (a) 126 (b) 136 (d) 98 (c) 116



	80, 40, 20, 10	, 0,										
	(a) 1	(b) 5	(c) $1\frac{1}{4}$	(d) $2\frac{1}{2}$								
2.	Nalini ate 28 t	french fries at lune	ch. Monty ate ha	lf as many								
	french fries as	s Nalini. Arpit ate 🤇	3 more french fri	es than Monty.								
	Which numbe	er sentence given	below will find th	ne number of								
	french fries A	rpit ate?										
	(a) (28 – 3)÷ 2	(b) (28 + 3)÷ 2	(c) (28 ÷ 2) – 3	(d) (28 ÷ 2) + 3								
3.	It takes 55 mi	nutes of fly from t	own A to town B	. It takes 12								
	times as much time to drive the same distance. How much time											
	is needed to drive from town A to town B?											
	(a) 11 hrs	(b) 6 hrs 6 min	(c) 6½ hour	(d) 9 hrs								
4.	If L = 3, M = L	+2, N = L - 3	Use DM	IAS								
	Then L + M $\times$	N = ?										
	(a) 5	(b) 3	(c) 0	(d) 1								
5.	If $\square$ + $\square$ + $\square$ + $\square$ = 120											
	and $\Box \div \Delta =$	б										
	find $\Delta$ + $\Box$ = ?											
	(a) 25	(b) 35	(c) 30	(d) None of this								
	(a) 25	(b) 35	(c) 30	(d) None of								
Fo	r more practise	papers log on <u>wwu</u>	w.mathsshow.com									
		ted to question pape										

			<u>A</u>	nswe	r She	<u>et</u>		
1		С		26	b		51	b
2	!	а		27	b		52	d
3	;	b		28	С		53	С
4		d		29	b		54	а
5	;	С		30	С		55	b
6	;	b		31	d		56	а
7	,	С		32	b		57	b
8	;	b		33	d		58	d
9	)	b		34	С		59	С
10	0	d		35	а		60	d
1	1	а		36	b		61	С
12	2	b		37	d		62	С
1	3	d		38	а		63	d
14	4	а		39	а		64	а
1	5	С		40	d		65	а
10	6	а		41	а		66	d
1	7	d		42	а		67	b
18	8	b		43	а		68	С
19	9	С		44	а		69	b
20	0	b		45	b		70	С
2	1	а		46	b		71	b
22	2	а		47	b		72	С
2	3	b		48	а		73	а
24	4	b		49	d		74	b
2	5	а		50	d		75	а
	Ans	swers	fo	or extr	a pra	ctic	<u>e que</u>	stions
	1	С		9	b		17	С
	2	С		10	b		18	d
	3	а		11	d		19	b
	4	С		12	С		20	а
	5	С		13	d		21	d
	6	а		14	b		22	d
	7	С		15	а		23	а
	8	b		16	b		24	b
							25	b

Section 3 (Solution) [16]  
61) In diagram 1,  

$$322 + 168 = 700 \text{ and} = 30 - 20$$
  
 $21 + 168 = 1891$   
 $\therefore A = 891 - 341$   
 $= 550$   
 $148 + 341 = 8$   
 $\therefore A = 6459$   
 $pifference between A & B = -341$   
 $= 550 - 459$   
 $= 01$   
 $= 01$   
 $= 550 - 459$   
 $= 01$   
 $= 37 - 9$   
 $\therefore Age of Manali = 37$   
 $fwice the age of Manali = 37$   
 $\therefore Age of Manali = 37$   
 $\therefore Age of Manali = 37$   
 $\therefore Age of Manali = 37 - 9$   
 $\therefore Age of Manali = 37 - 9$   
 $\therefore Age of Manali = 228.5$   
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Std: 5<sup>th</sup>

	Extra Practice Qu	est	ions (Solution) 17
1)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	9)	Boy $\rightarrow$ 2 yrs. 5 months Anu $\rightarrow$ 2 yrs. 5 months + 2 yrs. 10 months - 4 yrs. 15 months = 5 yrs. 3 months.
2)	$\frac{1}{3}$ part was given to Neha Hence Neha got 1 part out of 3. Hence, Juhi got 2 parts out of 3 But Juhi got ₹ 250 $\therefore$ 2 parts = 250 $\therefore$ 1 part = 250 $\div$ 2 = 125 $\therefore$ Neha got ₹ = 125	10) 11)	There is a difference of 40 minutes between two successive interviews. Hence 5 <sup>th</sup> interviews will be at 3 : 40 18 balls = $18 \div 3$ = 6 cans. 6 cans = 2 cans + 1 free can + 2 cans + 1 free can Hence total free cans = 2 No. of free balls = $2 \times 3 = 6$
3)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12)	Run $\rightarrow$ 420 seconds = 420 ÷ 60 = 7 minutes Walk $\rightarrow$ half an hour = $\frac{1}{2} \times 60$ = 30 minutes Swim $\rightarrow$ 45 minutes
5)	= 119 - 102 + 216 - 51 = 182 According to 2nd diagram O = 205 - 180 = 25 According to 1st diagram $6 \times 25 + 2 = 330$	13)	Total time = 7 + 30 + 45 = 82 minutes Brian's brother ate half pizza Hence remaining half pizza = 4 slices (Brian) + 6 slices (father) + 2 slices (remaining) = 12 slices Total no. of slices = $12 \times 2$ = 24
6)	$150 + \boxed{2} = 330$ $\boxed{2} = 330 - 150$ $= 180$ N is the greatest 2 digit prime number $\therefore N = 97$ $(N-2) \times 2 = (97-2) \times 2$	14)	3  books = ₹ 51 $1 \text{ book} = 51 \div 3$ = 17 stapler + book = ₹ 95 stapler = 95 - 17 = 78
7)	$= 95 \times 2$ = 190 Number <u>-20</u> $+50$ 209 Now work backwards, 209 - 50 = 159 150 - 50 = 159	15)	Nagesh $\rightarrow 28$ Rakesh $\rightarrow 3 \times 28 = 84$ Yogesh $\rightarrow 28 \div 2 = 14$ Total paper boats $= 28 \div 84 + 14$ = 126
8)	159 + 20 = 179 ∴ Number in beginning = 179 If we exclude 4 corner pots then, there are 25 pots in side of the square. Hence total no. of pots = $(25 \times 4) + 4$ = $100 + 4$ = $104$	16)	Present age of Johny = 12 Present age of Sam = 12 + 16 = 28 After 10 yrs, Johny's age = 12 + 10 = 22 Sam's age = 28 + 10 = 38 Total age after 10 yrs = 22 + 38 = 60 CCXX1 = 221 CCIX = 209 Hence CCXXI < CCIX is incorrect.

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18) For 1<sup>st</sup> figure
       4 + 8 = 12 \text{ and } 12 \times 3 = 36
∴ A = 3
       for 2^{nd} figure

2 + 3 = 5 and 5 \times 5 = 25

\therefore B = 5

A + B = 3 + 5 = 8.
      M + \frac{3}{12} = 1
19)
       \therefore \qquad M = 1 - \frac{3}{12}
                       = \frac{12}{12} - \frac{3}{12}
                        = \frac{9}{12}
                  N = \frac{11}{12} - M
                       = \frac{11}{12} - \frac{9}{12}
                        = \frac{2}{12}
             M + N = \frac{9}{12} + \frac{2}{12} = \frac{11}{12}
            21
20)
                             21 - 12 = 9
                             16
                      21)
             5 \div 2 = \frac{5}{2} = 2\frac{1}{2} (6<sup>th</sup>)
22) Nalini \rightarrow 28
       Monty \rightarrow (28 ÷ 2)
                   \rightarrow (28 ÷ 2) + 3
       Arpit
23) A to B flying \rightarrow 55 min
       A to B Driving \rightarrow 55 × 12
                                   660 min
                             =
                                   (660 ÷ 60)
                             =
                                   11 hours.
      24)
      L
       L + M \times N = 3 + 5 \times 0
= 3 + 0
                        =
                             3
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18
25) + + + +
                    =
                       120
              =
                       120 ÷ 4
                       30
              ____ ÷ ___ =
                       6
              30 ÷ 📐 =
                       6
                 _ =
                       5
              △+ □ = 5 + 30
                    =
                       35
                  ***
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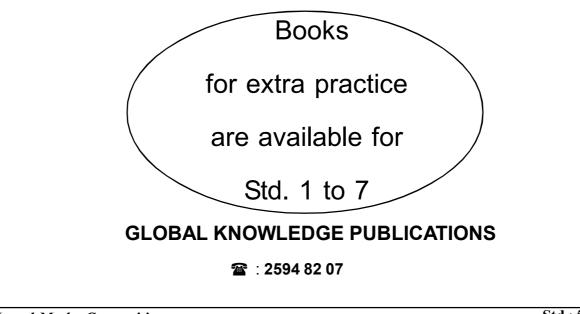
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**Std** : 5<sup>th</sup>

#### **Topics Included.**

- Q. No. 1 to 40 are based on basic. Calculation questions related to (+, , ×, ÷), doubling, halving and square of a number from 2 to 30.
- (2) Student should know multiplication tables from 2 to 25.
- (3) 3 digit, 4 digit Nos. operation. [+ , , × , ÷]
- (4) Number bonds, prime numbers from 1 to 100, unitary methods.
- (5) Mixed operations ( ÷ , ×, + , )
- (6) Calculating H.C.F & L.C. M
- (7) Number series (WHAT COMES NEXT)
- (8) Roman Numbers (FROM 1 to 1000), divisibility property of 2, 3, 4, 6, 9, 10.
- (9) Fractions :- Addition, subtraction, multiplication, divisions, comparision.
- (10) Conversion from hrs to mins, years to months, weeks to days.
- (11) Perimeter and area of square, rectangle & given close figure.
- (12) Word problems related to addition, subtraction, multiplication, division.



Mental Maths Competition.

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