Mental Maths Competition®

Organized by Global Maths Science Education[®]

In Association with Math Vision Pte Ltd., Singapore.



Std. 4

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.
- 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 testing fundamental concept covered in topic listed below. Each question carries 3 marks.
- [Section 3] Here questions are challenging & required high order thinking skills.
 Each question carry 4 marks. Students are requested to practice extra questions given alongwith the Mock paper. Any 15 questions can be asked as per given question format in mock paper & extra practice questions.

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	SECTION 1 (Me	ental Maths Calculation)
1.	6515 + 3405 =	8 . 4 8 6 5
	(a) 9710 (b) 9920	- 37A4
	(c) 9910 (d) 9820	1 0 8 1
2.	8466 - 3847 =	(a) 6 (b) 5
	(a) 4629 (b) 5619	(c) 7 (d) 8
	(c) 5029 (d) 4619	
		9 . 5 3 8 8
3.	7055 + 2353 =	<u>- 3 8 7 6</u>
	(a) 9508 (b) 9458	<u> </u>
	(c) 9408 (d) 9308	(a) 5 (b) 4
		(a) 3 (b) 4
4.	9425 – 5482 =	
	(a) 3963 (b) 4943	10 . 3675
	(c) 4043 (d) 3943	+ 4 1 A 8
		7863
5.	4855 - 3429 =	
	(a) 1326 (b) 1426	(a) 4 (b) 8
	(c) 1526 (d) 1436	(c) 5 (d) 7
6.	5491 + 2256 =	11 . 512 – – = 84
	(a) 7747 (b) 7757	
	(c) 7647 (d) 7637	(a) 398 (b) 438
		(C) 458 (d) 428
Fi	nd Value of A (Q.7 to Q.10)	12 . + 87 = 108
7	634A	(a) 20 (b) 22
	+ 2 5 0 8	(c) 21 (d) 19
	8853	
		13 58 = 286
	(a) 3 (b) 5	
	(c) 7 (d) 6	(a) 244 (b) 304
		(C) 444 (d) 344
		I

- **14.** $423 \times 12 =$ _____ (a) 5076 (b) 4076 (c) 5046 (d) 4376
- **15.** 786 × 13 = _____ (a) 10318 (b) 11218 (c) 12218 (d) 10218
- **16.** $318 \times 17 =$ _____ (a) 5516 (b) 5306 (c) 5406 (d) 5206
- **17.** $135 \times 19 =$ _____ (a) 2065 (b) 2565 (c) 2585 (d) 2465
- **18.** 755 × 22 = _____ (a) 16110 (b) 16710 (c) 16610 (d) 16810
- 19. Find multiple of 17 among given options.
 (a) 48 (b) 102
 (c) 64 (d) 96
- 20. Find multiple of 19 among given options.(a) 90 (b) 157
 - (c) 171 (d) 169
- **21.** $117 \div 13 =$ _____ (a) 9 (b) 8 (c) 6 (d) 7

- **22.** $98 \div 14 =$ ______ (a) 6 (b) 5 (c) 4 (d) 7

- 25. Which of following number is a multiple of both 14 & 18
 (a) 126
 (b) 120
 (c) 144
 (d) 112
- 26. Which of following number is a multiple of both 9 & 12
 (a) 63 (b) 45
 (c) 90 (d) 72
- **27.** $105 \div$ = 15 (a) 4 (b) 5 (c) 7 (d) 6
- **28.** 91 ÷ = 7

(a) 12	(b) 13
(c) 14	(d) 15

29.	÷ 8 =	= 19	36.	(8 × 9) – (5 (a) 80	$(x 2) + (6 \times 3) = $	
	(a) 102	(b) 162		(c) 70	(d) 85	
	(c) 142	(d) 152				
30.	÷ 9	= 15	37.	$\frac{1}{6} \times 48 = -$		
	(a) 165	(b) 125		(a) 5	(b) 7	
	(c) 155	(d) 135		(c) 8	(d) 6	
31.	14 ×	= 112	38.	$\frac{1}{16} \times 96 =$		
	(a) 6	(b) 8		16 (a) 5		
	(c) 7	(d) 9		(a) 5 (c) 8	(D) 6 (d) 7	
32	(7 + 4 - 2)	× (8 + 5 + 3) -		()	、 /	
52.	(/ + 2)	~ (0 + 0 + 3) =	39.	Double of	576 =	
	(a) 124	 (b) 134		(a) 1152	(b) 1052	
	(c) 144	(d) 154		(c) 1042	(d) 1142	
22	(6 x 7 x 2) (9 x 5 0) -		40.	Half of 876 =		
33.	$(0 \times 7 \times 3)$) – (8 × 5 – 9) =		(a) 436	(b) 458	
	(a) 105	 (b) 75		(c) 438	(d) 443	
	(c) 85	(d) 95				
34.	$(4 \times 4 \times 4)$) – (3 × 3 × 3) =				
	(a) 57	(b) 47				
	(c) 37	(d) 27				
35.	(6 × 7) + (9	9 × 2) – (4 × 3) =				
	(a) 28	(b) 48				
	(c) 58	(d) 38				

SECTION 2 (Mental Maths Concepts)

- **41.** Six Thousand Thirty + Five Hundred Ninety Four = (a) 6624 (b) 8634 (c) 7624 (d) 6824
- 42. Eight thousand and Forty Nine – Seven hundred and Eighty Three = (a) 7286 (b) 8466 (c) 6366 (d) 7266
- **43.** 60 + 59 + 58 + 57 + 56 + 55+ 54 + 53 + 52 + 51 = _____ (a) 535 (b) 555 (c) 545 (d) 565
- 44. The difference between
 (6 × 7) and (3 × 5) is _____
 (a) 17 (b) 37
 (c) 27 (d) 47
- 45. The sum of (14 × 4) and (12 × 5) is _____
 (a) 116 (b) 96
 (c) 86 (d) 106
- 46. (30 less than 700) +
 (50 more than 400) =_____
 (a) 1220 (b) 1120
 (c) 1180 (d) 1020

- 47. (60 more than 700) –
 (45 less than 400) = _____
 (a) 425 (b) 405
 (c) 405 (d) 435
- **48.** $(3 + 6) \times (8 4) =$ _____ (a) 36 (b) 16 (c) 26 (d) 46
- **49.** $(9 + 3) \times (9 4) =$ _____ (a) 50 (b) 70 (c) 80 (d) 60
- **50.** $(6 \times 3) \div (3 \times 3) =$ _____ (a) 5 (b) 2 (c) 4 (d) 3
- 51. 25th even number after 183
 is ______
 (a) 234 (b) 262
 (c) 232 (d) 238
- 52. 16th odd number after 277

is	
(a) 311	(b) 309
(c) 305	(d) 307

53. Find missing number in given number bond.



54. Find missing number in given number bond.



55. Find missing number in given number bond.



56. 5 weeks + 18 days = _____ days (a) 53 (b) 33 (c) 43 (d) 63

57.
$$5\frac{1}{6}$$
 year = _____ months
(a) 60 (b) 61
(c) 62 (d) 59

58.	$3\frac{1}{2} + 8\frac{1}{4} =$		quarters
	(a) 41	(b) 47	
	(c) 45	(d) 43	

59. $8\frac{1}{2} - 3\frac{1}{4} =$ quarters (a) 15 (b) 17 (c) 21 (d) 11

60. How many days are together is April, June and October?
(a) 93 (b) 92
(c) 91 (d) 90

SECTION 3 (Mental Maths Challenge)

- 61. Box C is the heaviest. Box A is lighter than Box D.
 Box A is heavier than Box B. If the boxes are arranged in order.
 Such that the heaviest is at the bottom and lightest is at the top.
 Box ______ is the 3rd from bottom.
 (a) B
 (b) A
 (c) D
 (d) C
- 62. A Watermelon was cut into 3 pieces P, Q and R. The mass of P was 8 unit, Q was 3 unit lighter than P. The mass of R was 6 unit more than Q. The mass of watermelon was _____ units.
 (a) 24 (b) 19 (c) 20 (d) 16
- **63.** Look at the number pattern given below.



65. There are 147 chairs in a school hall, Mr. Thomas takes 23 of them away.

The clerk brings in 44 more chairs. How many chairs are there now?

(a) 164 (b) 167 (c) 168 (d) 165

66. Write the missing number in the box.



- 67. Sharon is 2 years old now. Three years ago, her brother was 3 years old. What is their total age now?
 (a) 9 yrs
 (b) 3 yrs
 (c) 8 yrs
 (d) 6 yrs
- 68. When 3 pupils in a class are absent, there are 17 pupils in the class. How many people are there in the class, including the teacher if no pupil is absent?
 (a) 19 (b) 21 (c) 23 (d) 20
- 69. There were 23 red and green apples in a basket at first. Some apples were rotten and thrown away. There were 8 green apples and 10 red apples left. How many apples were rotten?
 (a) 7 (b) 8 (c) 4 (d) 5
- 70. Look at the addition sentence below. 57 + ? = 100Which of the following is **not** true about the missing number in the addition sentence?
 - (a) The digit in the tens place is 4.
 - (b) It is greater than 40.
 - (c) It is between 32 and 35.
 - (d) It has the same value as 25 + 18

 71.
 Add 48 to itself. 6 less than the answer is ______

 (a) 90
 (b) 96
 (c) 80
 (d) 73



 The missing number in the box is _____

 (a) 34
 (b) 27
 (c) 37
 (d) 39

- 73. Which of the following is not greater than 60?
 (a) 5 tens +15 ones
 (b) 4 more than 60
 (c) 50 + 13
 (d) 6 ten 4
- **74.** 27 + Z = 42 + 42 Z is _____ less than 90. (a) 84 (b) 33 (c) 72 (d) 74
- **75.** A box of matches is used to form the following figures.



Fanny forms 4 Figure A and Jane forms 7 figure B using all their matches.

How many matches does they use altogether?

(a) 76 (b) 86 (c) 66 (d) 67

(Extra practise question)

1. `50 × 3 + `20 × 9 + `5 × 12 + `500 × 2 = _____ (a) 1300 (b) 1290 (c) 1400 (d) 1390

- **2**. Choose false statements
 - (i) 5 + 7 < 8 + 9 (ii) (iii) 7 + 6 > 9 - 6 (iv (a) i (b) ii (c)

(ii)
$$18 - 4 = 7 + 7$$

(iv) $7 + 9 = 19 - 4$
(c) iii (d) iv

3. Choose correct statements
(i) 800 + 60 + 5 = 855
(ii) 600 + 30 + 5 = 653
(iii) 400 + 10 + 5 = 415
(iv) 300 + 20 + 8 = 382
(a) ii
(b) i
(c) iv
(d) iii

4. (LIX - XXII) + (LXIX + IX) = _____ (a) CXIV (b) CXV (c) CXXV (d) CXVI

5. The train starts from Pune at



It reached to the Kalyan stop at



How much time train has taken to reach Kalyan?

(a) 2 hrs 15 min

(b) 2 hrs 20 min (d) 1 hrs 50 min

(c) 2 hrs 45 min

6. If 24th Feb 2004 falls of Saturday then 9th March 2004 falls on

(a) Thursday (b) Friday (c) Saturday (d) Sunday 7. Simran bought a dictionary at 225 and calculator at 140. She still had ` 130 left. How much money she had first? (a) 505 (c) 490 (b) 500 (d) 495 8. Y is 9 ten 4 ones more than 58. X is 2 tens 6 ones less than Y. Find the value of x. (b) 130 (a) 126 (c) 128 (d) 125 Vinayak bought 6 books. Each book cost ` 12. If he had ` 80 at 9. first how much money had he left? (a) 2 (b) 3 (c) 5 (d) 8 10. The mass of each fruits is given below. Apple : 3 units Kiwi: 2 units Mango: 8 units Orange: 4 units Pear: 5 units Side B Side A Starfruit: 6 units

John puts 2 apples and a starfruit on side A. Suggest him combination of two different fruits he should put on side B to balance the scale.

- (a) starfruit, Apple, Orange
- (b) starfruit, Pear
- (c) Pear, Orange
- (d) Mango and Orange.

- 11. Aamir bought 30 sandwiches for a picnic. He placed sandwiches equally into 3 baskets. If one basket of sandwiches was left after the picnic, how many sandwiches was left after the picnic?
 (a) 10
 (b) 20
 (c) 5
 (d) 15
- 12. Miss Jasmine had 32 flowers. She sold them in bunches of 3. If she sold all of the bunches, how many flowers were left?
 (a) 1
 (b) 3
 (c) 5
 (d) 2
- **13.** Mrs. Nathan bought a dress and 5 skirts worth `150 each.The dress cost ` 350. How much money she spent altogether?(a) 1150(b) 1100(c) 1000(d) 1200
- 14. John has 6 notes of `100, 5 notes of `50, 7 notes of `5 and 4 notes of `20. He bought a calculator for `125 and a pen for `38. What amount will be left with him in the end.
 (a) 785 (b) 755 (c) 800 (d) 802
- 15. Reduce the fraction into smallest form



16.	\sum is between	45 and 47.	and 🗘	make 9 tens.
	(a) 44	(b) 45	(c) 47	(d) 46
17.	3 tens 6 ones + : There are	24 = \$ tens in the	number represer	nted by ᄎ .
	(a) 4	(b) 5	(c) 6	(d) 7
18.	Susan had some friends. She hac at first?	e sweets. She gav I 9 sweets left. Ho	e 7 sweets each to w many sweets di	o her two id Susan have
	(a) 21	(b) 22	(c) 23	(d) 24
19.	4	3 6		
	The cards are us	sed to from 2 digit	numbers less the	an 100.
	How many of the	ese numbers have	e the digit 6 in the	eir ones place?
	ทเ	umbers have the	digit 6 in their on	es place.
	(a) 1	(b) 2	(c) 3	(d) 4

20. Look at the number bonds below.



 Subtract A from B. The answer is _____.

 (a) 13
 (b) 24
 (c) 34
 (d) 37

13



23. Ramesh was 25 year old in the year 1996. Rakesh was 34 year old in the year 2010 by how many years is Ramesh is older than Rakesh.



25. When the number is added to itself, the result is 21 more than 55. Find the number?
(a) 43
(b) 38
(c) 44
(d) 39



Answer Sheet

1	b	2 6	d	51	С
2	d	27	С	5 2	b
3	С	2 8	b	53	С
4	d	2 9	d	5 4	а
5	b	3 0	d	5 5	b
6	а	3 1	b	5 6	а
7	b	3 2	С	5 7	С
8	d	33	d	58	b
9	а	3 4	С	59	С
10	b	3 5	b	60	С
11	d	36	а	61	b
12	С	3 7	С	6 2	а
13	d	38	b	63	b
14	а	39	а	6 4	d
15	d	4 0	С	6 5	С
16	С	4 1	а	66	а
17	b	4 2	d	67	С
18	С	4 3	b	68	b
19	b	4 4	С	69	d
2 0	С	4 5	а	70	С
21	а	4 6	b	71	а
2 2	d	4 7	С	7 2	С
2 3	b	4 8	а	73	d
2 4	d	4 9	d	74	b
2 5	а	5 0	b	75	а

Answers for extra practice questions

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



Extra Practice Questions (Solution)

 $50 \times 3 = 150$ $20 \times 9 = 180$ 150 1) 14) Amount with John $= (6 \times 100) + (5 \times 50) + (7 \times 5) + (4 \times 20)$ 5 × 12 = 60 600 + 250 + 35 + 80 = 600 -= 965 $500 \times 2 = 1000$ 150 + 180 + 60 + 1000 = 1390= 125 + 38 Money spent 163 = 2) Statement (iv) Money left = 965 - 163 7 + 9 = 1619 - 4 = 15,16 \neq 15 802 = $\frac{90}{60} = \frac{3}{2}$ Statement (iii) 3) 15) А = = 415 400 + 10 + 5 $\frac{5}{20} = \frac{1}{4}$ LIX - XXII = 59 - 12 = 47 LXIX + IX = 69 + 9 = 78 47 + 78 = 125 4) = B $A + B = \frac{3}{2} + \frac{1}{4}$ CXXV = 9:30 5) Starting time = 11 : 20 $\frac{6}{4} + \frac{1}{4}$ Ending time = Total time = 11 : 20 - 9:30 $\frac{7}{4}$ 1 : 50 Excluding 24th feb, there will be 5 more days till 6) 29th feb (leap year) 2004. and March 1 to March $\xi_{\rm A}^{\rm A}$ is between 45 and 47 16) 9 makes 9 days. *∑* = 46 9 + 5 = 14 days 14 ÷ 7 gives remainder '0' 44 + 46 = 90 = 9 tens Hence day on March 9 will be same as 24th feb hence answer is 44. which is Saturday. 17) 3 tens 6 ones + 24 Money spent 225 + 140 7) = = 36 + 24 = 60 365 = Money left 130 = \therefore No. of tens = 6 total = 365 + 130 = 495 Sweets given by her = $7 \times 2 = 14$ 18) Sweets left with her = 9 8) Υ 58 + 9 tens 4 ones = Total no. of sweets = 14 + 9 58 + 94 23 = 152 = = Y - (2 tens 6 ones) = 152 - 26 Х 19) Possible numbers are only three 16, 36, 46 126 = 20) 13 Cost of 1 book = 12Cost of 6 books = $12 \times 6 = 72$ Amount left = 80 - 72= 837 9) 24 Working backwords 21) Z = 95 - 3 = 92 92 ÷ 2 = 46 - 9 = Υ 46 = Side A = 2 apples + 1 starfruit = $(2 \times 3) + (1 \times 6)$ 10) Х 37 = X = 81 - 23 = B - 50 = 6 + 6 22) 58 = 12 units Option(d) = Mango + orange = 8 + 4 = 58 - 15 = 43 X - B = 58 - 43 = 15= 12 23) Ramesh's age in 1996 = 25 yrs. :. Ramesh's age in 2010 = 25 + 14 = 39 11) No. of sandwiches in one basket = 30 ÷ 3 = 10. Difference = 39 - 34 = 5 yrs. 24) $876 \div 6 = 146$ \therefore A = 1 and B = 6 A + B = 1 + 6 = 7 32 ÷ 3 gives remainder '2' 12) hence 2 flowers were left. 350 + (5 × 150) 13) Money spent = 25) 55 + 21 = 76 350 + 750 = \therefore the number = 76 ÷ 2 1100. = = 38

Mental Maths Competition®

Topics Included.

- Q. No. 1 to 40 are based on basic, calculation related to Addition, Subtraction, multiplication and division, doubling and halving.
- (2) Student should know multiplication tables from 2 to 20.
- (3) 3 digit, 4 digit Nos operation. [+ , , × , ÷]
- (4) Odd and even (2 digit, 3 digit nos]
- (5) Mixed operations $(\div, \times, +, -)$
- (6) Calculation related to time and money.
- (7) Number series (WHAT COMES NEXT), Number bonds
- (8) Roman Numbers (FROM 1 to 1000), divisibility property of 2, 3, 4, 6, 9, 10.
- (9) Fractions (addition, subtraction, multiplication, divisions)
- (10) Conversion from hrs to mins, years to months, weeks to days, dozen to units.
- (11) Word problem to related (+, , ×, ÷)
- (12) Formation of smallest and greatest number using given digits.



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