

MENTAL MATHS COMPETITION

: Organised by:

GLOBAL MATHS SCIENCE EDUCATION®

in association with

Math Vision PTE Ltd., Singapore

MOCK TEST

Name :		
School :		Std. : 4
Mob.No. : (Mother)	(Father)	

Total Marks: 100 Total No.of questions: 50

- 1. Time: 1 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 20 questions help to build calculation skills. Each question carries 1 mark.
- 5. [Section 2] It is related with 20 questions to test fundamental concept covered in topic listed below. Each question carries 2 marks.
- 6. [Section 3] Here questions are challanging & required high order thinking skills. Each question carries 4 marks. Students are requested to practice extra question given alongwith given two Mock papers in this booklet. Any 10 questions will be asked from given question format in mock paper & extra practice questions.

Topics

- ◆ Addition & Subtraction
- Multiplication & Division
- Tables from 2 to 20
- Roman Numbers (1 to 2000)
- ◆ Metric Measurement (Kg, G, M, CM, L, ML)
- ◆ Fractions (+, -, ×, ÷), Reducing
- ◆ Time (hrs, Mins, Seconds, days)

- ◆ Angles (Acute, Obtuse, Straight, Right, Reflex)
- Area & Perimeter (Square & rectangle)
- ◆ Order of Operations DMAS (÷, ×, +, –)
- ◆ Divisibility (2, 3, 4, 5, 6, 8, 9, 10, 11)
- ◆ Calender
- Number Bonds

SECTION - 1 Mock Paper - 1

- 6784 + 4308 = 1.
 - (a) 11209
- (b) 11902
- (c) 11092
- (d) 10192
- 2. 8367 - 3989 =
 - (a) 4178
- (b) 4378
- (c) 4738
- (d) 4278
- 3. 397 + 1 9 8 3 9 5 2 2
 - (a) 4

(b) 3

(c) 2

- (d) 5
- 4 6 9 4. <u>- 3 7 8</u> 4 ___0906
 - (a) 0

(b) 1

(c) 3

- (d) 2
- 634 🔲 = 179 _____ **5**. (a) 465 (b) 456

(c) 445

- (d) 455
- \Box + 726 = 1103 **6**.
 - (a) 376

(b) 367

(c) 377

- (d) 378
- 698 × 19 = ____ **7**.
 - (a) 12262
- (b) 13362
- (c) 12362
- (d) 13262

- Find two consecutive multiples 8. of 17 among given options?
 - (a) 153, 170
- (b) 108, 119
- (c) 51, 70
- (d) 136, 154
- 9. $98 \div 14 =$
 - (a) 6

(b) 5

(c) 4

- (d) 7
- When 145 is divided by 15, 10. remainder is _____
 - (a) 10

(b) 9

(c) 11

- (d) 8
- 11. Which of the below number is multiple of both 9 & 12?
 - (a) 63

(b) 45

(c) 90

- (d) 72
- $(13 \times 9) + (19 \times 2) (14 \times 11)$ **12**.
 - = _____ (a) 0
- (b) 2

(c) 1

- (d) 3
- $\frac{3}{17} \times 119 =$ _____ **13**.
 - (a) 21

(b) 7

(c) 24

- (d) 31
- 14. Eight thousand and Forty nine ones - Seventy tens and three units =
 - (a) 779

- (b) 7246
- (c) 7346
- (d) 7976

- **15.** The difference between (16×7) and (15×3) is _____
 - (a) 66

(b) 57

(c) 47

- (d) 67
- **16.** The sum of (14×9) and (17×3)

is _____

(a) 176

(b) 177

(c) 167

- (d) 157
- **17.** $(16 \times 3) \div (3 \times 4) =$
 - (a) 4

(b) 3

(c) 6

- (d) 1
- **18.** 36th even number after 263

is _____

(a) 334

(b) 336

(c) 332

- (d) 335
- **19.** 29th odd number before 196

is _____

(a) 138

(b) 139

(c) 137

- (d) 141
- **20.** How many days are together in April, June and December?
 - (a) 93

(b) 92

(c) 90

SECTION - 2

21. The difference between the place values of 8 in 8,085

is _____

- (a) 8080
- (b) 7920
- (c) 7880

- (d) 7930
- **22.** 60 + 59 + 58 + 57 + 53 + 52 + 50 + 49 + 48 + 46 = _____
 - (a) 534

(b) 522

(c) 532

- (d) 542
- **23.** The sum of (19×9) and (13×11) is _____
 - (a) CCCXIV
- (b) CCCXXIV
- (c) CCCXVI
- (d) CCCIV
- **24.** (XXXVIII less then DCXIV) + (XLIX more than CDXIV)

= _____

(a) 1029

(b) 1139

- (c) 1309
- (d) 1039
- **25.** 8.05 kg = ___ kg ___ gm
 - (a) 8 kg 5 g
- (b) 8 kg 50 g
- (c) 8 kg 500 g
- (d) All correct
- **26.** 6 hrs 45 mins = ____ mins
 - (a) 415

(b) 455

(c)410

(d) 405

- **27.** $8\frac{1}{4}$ year = ____ months
 - (a) 109

(b) 99

(c)89

- (d) 79
- **28.** $7\frac{1}{2} + 4\frac{1}{4} =$ _____ quarters
 - (a) 47

(b) 57

(c) 49

- (d) 37
- **29.** 9, 13, 15, **★**,21, 25, 27 value of **★** is _____.
 - (a) 17
- (b) 29

(c) 19

- (d) 9
- **30.** $\frac{2}{5} = \frac{1}{15}$, \therefore = ?
 - (a) 6

(b) 5

(c) 7

- (d) 30
- **31.** $3 \times \frac{18}{81} =$ _____
 - (a) $\frac{1}{3}$

(b) $\frac{3}{2}$

(c) $\frac{2}{3}$

- (d) $\frac{1}{2}$
- **32.** If $\Box \Box \Box \Box \Box = 42$; what
 - is _ _ _ ?
 - (a) 7

(b) 14

(c) 28

- **33**. $\uparrow \rightarrow \downarrow \leftarrow \uparrow \rightarrow \downarrow \leftarrow ?$ The missing pattern is _____
 - (a) $\uparrow \rightarrow \downarrow$
- (b) ↑ ↑ ↑
- (c) \downarrow \leftarrow \uparrow (d) \downarrow \rightarrow \uparrow
- 34. Find missing number in given number bonds:





- (a) 135

(b) 142

(c) 132

- (d) 122
- Find missing number in **35**. given number bonds

(a) 152

(b) 132

(c) 154

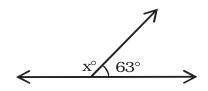
- (d) 142
- **36.** 37 + M = 62 + 48, M is less then 100.
 - (a) 63

(b) 27

(c) 73

(d) 37

37.



value of x =

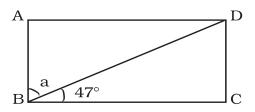
(a) 116°

(b) 107°

(c) 127°

(d) 117°

38.



ABCD is a rectangle, ∠a =

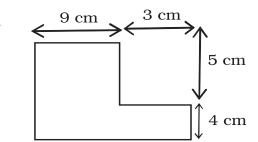
(a) 43°

(b) 27°

(c) 17°

(d) 7°

39.



The perimeter of figure is

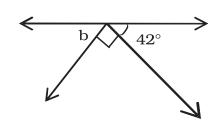
- ___ cm
- (a) 32

(b) 42

(c) 43

(d) 44

40.



Value of b =

(a) 38°

(b) 58°

(c) 48°

(d) 46°

SECTION 3

- Which of the below options becomes true when 4 is placed in the 41.

- (a) $40 \div \boxed{} = 8$ (b) $24 \div \boxed{} = 8$ (c) $16 \div \boxed{} = 8$ (d) $32 \div \boxed{} = 8$
- At your skating party you noticed 30 legs on the outdoor ring. **42**. How many people's and dogs are on the outdoor ring?
 - (a) 4 dogs, 7 peoples (b) 5 dogs, 7 peoples
 - (c) 4 dogs, 8 peoples
- (d) 5 dogs, 10 peoples
- The teacher baked a batch of muffins. There are 16 muffins in a **43**. batch. She ate $\frac{1}{4}$ of the batch, then she made two more batches. How many muffins does she has now?
 - (a) 45

(b) 44

(c) 48

- (d) 46
- If $\langle \rangle \times 4 = \not \Leftrightarrow ; \not \Leftrightarrow \langle \rangle = 330$, then what is $\not \Leftrightarrow + \langle \rangle$ (a) 110 (b) 440 (c) 550 (d) 990
- If 25th February 2016 falls on Wednesday, then 19th May 2016. **45**. will fall on
 - (a) Friday
- (b) Tuesday
- (c) Thursday
- (d) Wednesday
- $B \mid$ 6 8 **46**. 6
 - $\therefore A + B = ?$
 - (a) 1

(b) 2

(c) 3

- (d) 4
- Add 550 to twenty five. How much should be added to this sum **47**. to get 100 tens?
 - (a) 375

(b) 475

(c) 325

48. Janvi took a flight at 8:45 from Singapore to Delhi. She then took a taxi to home. It took her 2 hrs 45 mins by taxi to reach home. If she reached home at 6:15, then how long was her flight?

(a) 7 hrs 10 mins

(b) 6 hrs 45 mins

(c) 6 hrs

(d) 6 hrs 15 mins

49. Divide the difference of 7051 and 2344 by 9?

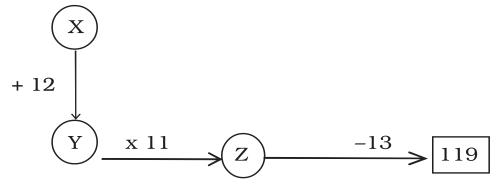
(a) 523

(b) 532

(c) 325

(d) 352

50.



The value of X is _____

(a) 2

(b) 1

(c) 3

SECTION - 1 Mock Paper - 2

- 1. 4374 + 3709 = (a) 8093
- (b) 8173
- (c) 8073
- (d) 8083
- 2. 7378 - 3994 =(a) 3384 (b) 3374
 - (c) 3394
- (d) 3284
- 3. 6 7 9 8 + 2 0 8 8 3 7
 - (a) 2

(b) 1

(c) 3

- (d) 4
- 5 9 4. 4 2 7 4 3 9 6 8
 - (a) 9

(b) 7

(c) 8

- (d) 6
- 594 🔲 = 278 _____ **5**. (a) 306 (b) 316 (c) 326
 - $394 + \square = 777$
 - (a) 363

6.

(b) 373

(d) 216

(c) 393

- (d) 383
- **7**. $729 \times 14 =$
 - (a) 10106
- (b) 12006
- (c) 10206
- (d) 10216

- Find two consecutive multiples 8. of 13 among given options?
 - (a) 91, 106
- (b) 65, 76
- (c) 78, 91
- (d) 107, 130
- $136 \div 17 =$ 9.
 - (a) 7

(b) 8

(c) 9

- (d) 11
- When 1279 is divided by 11, **10**. remainder is _____
 - (a) 3

(b) 4

(c) 2

- (d)5
- 11. Which of the below number is multiple of both 7 & 14?
 - (a) 133

(b) 136

(c) 126

- (d) 130
- $(12 \times 7) (13 \times 2) + (16 \times 3)$ **12**.
 - = ___
 - (a) 116

(b) 96

(c) 126

- (d) 106
- $\frac{4}{13} \times 91 =$ ____ **13**.
 - (a) 18

(b) 28

(c) 32

- (d) 38
- 14. Seven thousand and Six tens - Three hundred and Thirty
 - ones = ____
 - (a) 6630
- (b) 6703
- (c) 6713
- (d) 6730

- 15. The difference between (14×7) and (12×3) is _____
 - (a) 52

(b) 62

(c) 72

- (d) 64
- **16.** The sum of (16×4) and (13×11)

(a) 207

is

(b) 197

(c) 209

- (d) 217
- 17. $(14 \times 8) \div (4 \times 4) =$ _____
 - (a) 5

(b) 6

(c) 8

- (d) 7
- **18.** 42^{nd} even number before 137

is _____

(a) 53

(b) 44

(c) 54

- (d) 52
- **19.** 31st odd number after 151

is

(a) 203

(b) 213

(c) 212

- (d) 223
- **20.** How many days are together in June, September and November ?
 - (a) 90

(b) 91

(c) 93

SECTION - 2

The difference between the 21. place values of 7 in 3717

is

(a) 693

(b) 694

(c) 793

- (d) 695
- 70 + 69 + 68 + 67 + 64 + 63 +**22**.

60 + 59 + 58 + 57 =(a) 637

(b) 535

(c)645

- (d) 635
- The sum of (13×4) and **23**. (15×9) is
 - (a) CLXXXVI
- (b) CLXXXVIII
- (c) CLXXVII
- (d) CLXXXVII
- (LXIX less then CCCXXVII) -**24**. (CIX more than XCVIII)

(a) L

b) XLI

(c) LI

- (d) LXII
- $11.09 l = ___ l __ ml$ **25**.
 - (a) 11 l 9 ml
- (b) 11 *l* 90 m*l*
- (c) 11 l 09 ml (d) 11 l 19 ml
- 9 hrs 39 mins = ____ mins **26**.
 - (a) 589

(b) 569

(c) 578

(d) 579

- $9\frac{3}{4}$ year = ____ months **27**.
 - (a) 127

(b) 107

(c) 117

- (d) 116
- $6\frac{3}{4} + 2\frac{1}{2} =$ quarters 28.
 - (a) 37

(b) 27

(c) 47

- (d) 39
- **29**. 7, 14, 23, 30, 39, 🕌 ,55 value of \clubsuit is _____.
 - (a) 46

(b) 48

(c) 47

- (d) 45
- **30**.
 - (a) 16

(b) 18

(c) 15

- (d) 17
- $4 \times \frac{12}{64} =$ _____ 31.
 - (a) $\frac{1}{4}$
- (b) $\frac{3}{4}$

(c) 4

- (d) $\frac{5}{4}$
- 32. what is $\square \square \square$
 - (a) 17

(b) 21

(c) 27

33.

___ ? The missing pattern is ____

(a) | _ _ |

(b) (∆

- Find missing number in **34**. given number bonds:

(a) 75 (b) 55

(c)65

- (d) 45
- Find missing number in **35**. given number bonds

(a) 32

(b) 52

(c)65

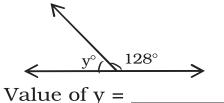
- (d) 62
- **36.** 23 + 91 = P - 36, P is less then 150.
 - (a) 1

(b) 2

(c) 0

(d) 3

37.



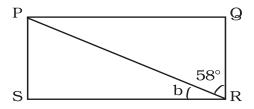
(a) 52°

(b) 42°

(c) 54°

(d) 62°

38.



PQRS is a rectangle, $\angle b =$

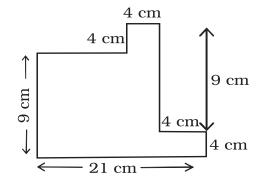
(a) 12°

(b) 13°

(c) 11°

(d) 14°

39.



The perimeter of figure is

____ cm

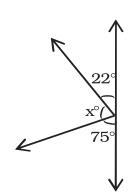
(a) 74

(b) 66

(c)68

(d) 78

40.



Value of x =

(a) 85°

(b) 83°

(c) 73°

(d) 93°

SECTION 3

- **41.** $\frac{5}{8} = \frac{25}{\cancel{8}} = \frac{\cancel{*}}{64}$, subtract $\cancel{*}$ from $\cancel{*}$?
 - (a) 2

(b) 40

(c) 0

- (d) 1
- **42.** 35 $\boxed{}$ 7 $\boxed{}$ 5 $\boxed{}$ 2 = 15, which of the below options is correct?
 - (a) +, ×,÷

- (b) ÷, -, ×
- (c) \div , +, -
- (d) \div , +, \times
- **43.** James works 9 hours a day. If he earns ₹6 in an hour and he work for 2 weeks every day in the week, how much does James earn?
 - (a) ₹756

(b) ₹736

(c) ₹496

- (d)₹946
- **44.** A bakery produces 780 loaves of bread in 6 days. It produces an equal number of loaves each day. How much loaves of bread the bakery produce each day?
 - (a) 1120
- (b) 130

(c) 1160

- (d) 120
- **45.** Reduce the fraction into smallest form and find the value of A + B.
 - $\frac{45}{30} = \boxed{ }$

 $\frac{16}{24} = \boxed{}$

(a) $\frac{5}{6}$

(b) $\frac{11}{6}$

(c) $\frac{9}{6}$

(d) $\frac{13}{6}$

46. P + 93 = 181

P = Q + 59; Find sum of P and Q.

(a) 119

(b) 117

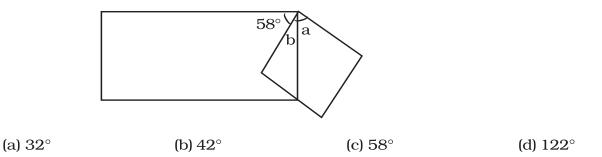
(c) 107

- (d) 118
- **47.** Divide the 5^{th} multiple of 9 by the 2^{nd} multiple of 3. The sum of the remainder and the quotient is _____?
 - (a) 3

(b) 4

(c) 7

48. The figure below shows a rectangle and a square find \angle a?



- **49.** The area of a rectangle is 32 cm² and its length is 8 cm. Find its perimeter?
 - (a) 24 cm
- (b) 12 cm
- (c) 4 cm

- (d) 14 cm
- **50.** Rani went to a movie. The movie was 2 hrs 15 mins long. If the movie ended at 4:30 pm, at what time did the movie start?
 - (a) 2:15 am
- (b) 2:30 pm
- (c) 2:15 pm
- (d) 2:05 pm

(Extra practise question) - (Section - 3)

1.	Arjun is 24 y	ears old today. He	e is elder to his b	rother by 6 years.
	What will be	the sum of ages of	f two, 7 years her	nce?
	(a) 49	(b) 42	(c) 56	(d) 38
2.	4 3 place ar	is a number divise the same. Find t	sible by 11 and the	
	(a) 5	(b) 2	(c) 3	(d) 9
3.		t of 7 books and 1 ok is ₹11, what is (b) 12		234. If the cost of book?
4.	for 50 minute	study in the morni es. Then took rest at time was it? (b) 9 : 40 pm		
5.	XLVI + XXVIII + XIV + VIII – V (a) 4		(c) 5	(d) 8
6.	In the given e	example of division	n, the remainder	is 0. Find the $\frac{3 \square}{17)5 \not\approx 8}$
	(a) 7	(b) 4	(c) 5	(d) 11
7.	A water tank	of capacity 56 litr	e is filled with 35	litre of water.

- What part of tank is empty?
 - (a) $\frac{5}{8}$

(b) $\frac{3}{7}$

(c) $\frac{3}{8}$

(d) $\frac{5}{7}$

8. In January a company sold 873 cycles, in February it sold 395 less than January. In March it sold 117 more cycles than that sold in February. What is the total sale of cycles in those three months.

(a) 1946

(b) 1948

(c) 1949

(d) 1945

9. The perimeter of a rectangle is 42 cm. Which one of the following cannot be its length & breadth?

(a) L = 17 cm, B = 4 cm

(b) L = 18 cm, B = 7 cm

(c) L = 15 cm, B = 6 cm

(d) L = 13 cm, B = 8 cm

10. Misha and Nisha were asked to multiply a same number by 12 and 18 respectively. What could be the difference between their answers?

(a) 42

(b) 27

(c) 64

(d) 81

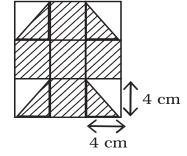
11. Find the area of shaded part is _____ cm²

(a) 128

(b) 102

(c) 122

(d) 112



12. Multiply the sum of $\frac{2}{3}$ and $\frac{1}{9}$ by 27. The answer is _____.

(a) 24

(b) 21

(c) 18

(d) 27

13. Sachin had 54 marbles. His brother has $\frac{5}{6}$ as many marbles as Sachin. How many marbles did they have altogether?

(a) 89

(b) 109

(c) 45

(d) 99

14. Divide the product of 7 and 96 by 8. The answer is _____

(a) 14

(b) 32

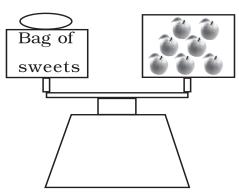
(c) 84

- **15.** In the figure, the total weight of Bag of sweets and seven oranges is 3 kg 208 g. If the bag of sweets weight is 632 g. Find the weight of each orange.
 - (a) 368 g

(b) 386 g

(c) 378 g

(d) 2576 g



- **16.** Raju is younger than Ravi by 4 years. Wasim's age is half of Ravi's. Wasim is 12 years old. How old was Raju two years ago?
 - (a) 17

(b) 19

(c) 18

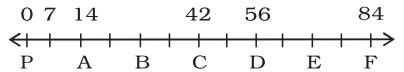
- (d) 16
- 17. 1^{st} of January is on Wednesday. If 2^{nd} and 4^{th} Saturdays are holidays, what dates will there be on these days?
 - (a) 1, 15

- (b) 11, 25
- (c) 15, 29
- (d) 8, 29
- 18. Salina gets a scholarship worth ₹150 per month, she saves $\frac{1}{5}^{th}$ part of it in the school bank. How much does she save in a year.
 - (a) ₹316

(b) ₹240

(c) ₹480

- (d) ₹360
- **19.** Points A, B, C, D indicate equal distances on the below line.



Gopal rode on a bicycle from 'A' to 'F'. He came back to 'D'. How many kilometres did he travel?

(marks on the line indicate kilometers)

- (a) 119 km
- (b) 98 km
- (c) 56 km
- (d) 105 km
- **20.** In a school, 250 children go by bus, twice that number goes by bicycle. The children going on foot is equal to the sum of children going by bus and by bicycle. How many children are there in the school?
 - (a) 1500
- (b) 1400

(c) 1350

21. In the adjoining division problem, the same digit is there in place of the 5 stars. Which digit is that?

(a) 2	2

	☆		
1*	4	8	₩
_	☆		
	0	9	☆
	_	9	1
		0	2

22. Sum of the numbers in each row and in each column is the same. Which numbers will come in place of x and y respectively.

(a)	3	9

- 14
 x
 10

 5
 y
 13

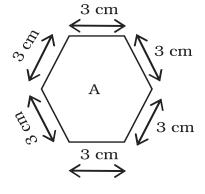
 8
 15
 4
- **23.** Madan bought a compass-box for ₹130, a notebook for ₹22.50 and a ruler for ₹14.50. If he gives the shopkeeper a note of ₹200, how many rupees will he get back?
 - (a) ₹23

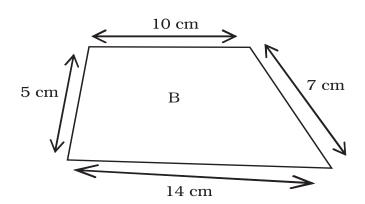
(b) ₹34

(c) ₹33

(d) ₹43

24.





Study the above two figures. How many times is the perimeter of 'B' to that of 'A'?

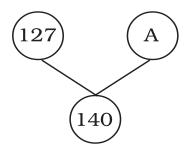
(a) half

- (b) quarter
- (c) 4 times
- (d) 2 times
- **25.** How many coins of ₹5 will you get in exchange by giving 60 coins each worth 50 paise?
 - (a) 5

(b) 6

(c) 30

- **26.** (MDCCLXXXIV CDLXIII) + (DCXXVI + XLVIII) = _____
 - (a) MCMXCV
- (b) MCDXV
- (c) MCXCV
- (d) MDXCV
- **27.** Look at the number bonds below



(75) (132) B

Subtract A from B. The answer is _____

(a) 13

(b) 207

(c) 194

- (d) 196
- **28.** Chetan is taller than Samir by 4cm. Milan is shorter than Chetan by 4cm. Samir is 1 metre and 47 cm tall. What is the height of Milan?
 - (a) 1.51 m
- (b) 1.46 m
- (c) 1.41 m
- (d) 1.47 m
- **29.** The clock is fast by 6 minutes. If the examination is to begin at 1 O'clock, how much time is actually left for the exam to start.
 - (a) 50 mins

(b) 54 mins

(c) 56 mins

(d) 66 mins



- **30.** Ten rupee notes are arranged in serial order in a bundle form number 12356 to 12406. How much is the total amount if none of the serial number is missing?
 - (a) ₹400

(b) ₹410

(c) ₹510

(d)₹500

Answer Sheet

Mock paper - 1

1	С	2	b	3	d	4	а	5	d	6	С	7	d	8	а	9	d	10	а
11	d	12	С	13	а	14	С	15	d	16	b	17	a	18	a	19	b	20	d
21	b	22	С	23	а	24	d	25	b	26	d	27	b	28	а	29	С	30	а
31	С	32	С	33	а	34	С	35	а	36	b	37	d	38	С	39	b	40	С
41	d	42	а	43	b	44	С	45	d	46	b	47	d	48	b	49	а	50	d

Mock paper - 2

1	d	2	a	3	С	4	a	5	b	6	d	7	С	8	С	9	b	10	а
11	С	12	d	13	b	14	d	15	b	16	a	17	d	18	С	19	b	20	b
21	а	22	d	23	d	24	С	25	b	26	d	27	С	28	а	29	а	30	d
31	b	32	С	33	а	34	С	35	b	36	С	37	а	38	d	39	С	40	b
41	С	42	d	43	a	44	b	45	d	46	b	47	d	48	С	49	a	50	С

Extra Practice Question Paper (Section - 3)

1	С	2	d	3	а	4	d	5	b	6	d	7	С	8	а	9	b	10	а
11	d	12	b	13	d	14	С	15	а	16	С	17	b	18	d	19	b	20	а
21	С	22	а	23	С	24	d	25	b	26	а	27	С	28	d	29	С	30	С

SECTION 3 (Solutions)

Mock Paper - 1

- 41) Option (d) is correct as
 - 32 ÷ 4 = 8
- 42) Total legs = 30 $4 \text{ dogs} = 4 \times 4 \text{ legs} = 16$ $7 \text{ people} = 7 \times 2 \text{ legs} = 14$ Total = 30 \therefore its 4 dogs and 7 peoples
- 43) Muffins in one batch = 16 Muffins ate = 4 Muffins left = 16 - 4 = 12Made 2 more batches = $2 \times 16 = 32$ (+) Muffins left over 1244
- 44) $\Diamond \times 4 = \bigstar$ \rightarrow \bigcirc $\bigstar \Diamond = 330$ \rightarrow \bigcirc $\therefore \bigstar = 300 + \Diamond$ Substitute value of \bigstar in $\Diamond \times 4 = \bigstar$ $\Diamond \times 4 = 330 + \Diamond$ $\Diamond \times 4 = 330 + \Diamond$
 - **★** 110 = 330 **★** = 330 + 110 = 440

Now, \bullet $- \diamondsuit = 330$

- 45) Month No. of days
 Feb (29 25) 4
 March 31
 April + 30
 May + 19
 Total days
 Now, divide 84 by 7, as in a second second

Now, divide 84 by 7, as in a week there are 7 days $84 \div 7$, Don't see the quotient, see the remainder, as remainder is zero, it will remain the same day, Wednesday.

46) Divide 868 by 14, Quotient is 62, So,

A	6	В	
0	6	2	
* *		-	

Now A + B = 0 + 2 = 2

47) 550 + 25 = 575 Now, 575 + ___ = 1000 ∴ 1000 - 575 = 425

- 48) Flight boarding time = 8: 45
 Time taken by Taxi to reach
 Home = 2 hrs 45 mins
 Reached home at 6: 15
 Count time back ward,
 From 6: 15, 2 hrs 45 mins back
 = 3: 30
 Now, for duration of flight
 Count time from 8: 45 to 3: 30
 = 6 hrs 45 mins
- 49) 7051 2344 = 4707Now $4707 \div 9 = 523$
- 50) Do, working backwards So, Z = 119 + 13 = 132 $Y = 132 \div 11 = 12$ X = 12 - 12 = 0

Mock Paper - 2

41) $\frac{5}{8} \times \frac{5}{5} = \frac{25}{*}, ... * = 40$

$$\frac{5}{8} \times \frac{8}{8} = \frac{\cancel{\$}}{64}, \cancel{\$} = 40$$

Now, subtract \star from ** = 40 - 40 = 0

- 42) $35 \div 7 + 5 \times 2 = 15$ Use, DMAS $5 + 5 \times 2 = 15$ 5 + 10 = 15 15 = 15Option (d), ÷, +, ×
- 43) James works 9 hours a day
 He earns ₹6 in an hour
 Works for 2 weeks every day
 = 14 days
 Total number of hours = 14 × 9
 = 126
 Total earnings in 2 weeks
 = 126 × 6 = ₹ 756
- 44) 780 loaves of bread in 6 days ∴ Each day = 780 ÷ 6 = 130
- 45) $A = \frac{45}{30} = \frac{3}{2}$ (Reduced form)

$$B = \frac{16}{24} = \frac{2}{3}$$
 (Reduced form)

Now, A + B = $\frac{3}{2} + \frac{2}{3}$

Make denominators common

So,
$$\frac{3\times3}{2\times3} + \frac{2\times2}{3\times2} = \frac{9+4}{6} = \frac{13}{6}$$

- 46) P + 93 = 181 ∴ P = 181 - 93 = 88 Now, P = Q + 59 ∴ 88 = Q + 59 ∴ Q = 88 - 59 = 29 P + Q = 88 + 29 = 117
- 47) 5^{th} Multiple of $9 = 9 \times 5 = 45$ 2^{nd} Multiple of $3 = 2 \times 3 = 6$ Now, divide 45 by 6, the quotient is 7 and Remainder is 3. \therefore Quotient + Remainder = 7 + 3 = 10
- 48) Each angle of a rectangle is 90° $\therefore 58^{\circ} + b = 90^{\circ}$ $\therefore b = 90^{\circ} - 58^{\circ} = 32^{\circ}$ Each angle of a square is also 90° $\therefore b + a = 90^{\circ}$ $\therefore 58^{\circ} + a = 90^{\circ}$ $\therefore a = 90^{\circ} - 32^{\circ}$ $a = 58^{\circ}$
- 49) Area of rectangle = 32cm^2 Length = 8 cm \therefore Area = L × b $32 = 8 \times \text{b}$ \therefore b = $\frac{32}{8}$ = 4 cm

Now, perimeter = sum of all sides = 8 + 8 + 4 + 4= 24 cm

50) Duration of movie = 2 hours 15 mins Movie ended at 4 : 30 pm Now, from 4.30 pm go backward 2 hrs 15 mins = 2 : 15 pm

Extra Practice Questions

1) Present age of Arjun = 24 yrs
Present age of his brother = 24 - 6
= 18 yrs

Age after 7 years, Arjun = 24 + 7 = 31 years His Brother = 18 + 7 = 25 years their sum of ages = 56 years

2) 4 9 3 9

Divisibility of 11 is do sum of alternate placed digits, if the difference of the sum should be 0 or multiple of 11. So, 4 + 3 = 7

So, 4 + 3 = 7 9 + 9 = 18Now 18 - 7 = 11

So, '9' should be the digit in the

Cost of 7 books and 13 notebooks = ₹234 cost of each notebook = ₹11
 ∴ cost of 13 notebooks = 13 × 11 = ₹143 cost of 7 books = 234 - 143 = ₹91
 ∴ cost of each book = 91 - 13 = ₹7

- 4) Study start time= 8:30 Studied for 50 mins, took rest for 20 mins From 8:30 am, go 70 mins ahead, it will be 9:40 am
- $5) \qquad \frac{46 + 28 + 16}{14 + 8 7}$ $\frac{90}{15} = 6$
- 6) Remainder is 0, $3 \frac{4}{17)578}$ $\Rightarrow = 7$ $\therefore \boxed{ + }$ 4 + 7 = 11 $3 \frac{4}{17)578}$ $\frac{51 \downarrow}{68}$ 00
- 7) Capacity of water tank = 56 l35 l is filled \therefore Empty = 56 35 = 21 l \therefore fraction part empty $= \frac{21}{56} = \frac{3}{8}$
- 8) Sale in January = 873 Sale in February = 873 - 395 = 478 Sale in March = 478 + 117 = 595 Total cycle sold = 876 + 478 + 595 = 1946 cycles
- 9) Perimeter = 42 cm Option (b) is the correct answer as, L = 18 cm, B = 7 cm Perimeters = 18 + 18 + 7 + 7 = 50 cm
- Misha multiplied it by 12 Nisha multiplied it by 18 Table of 12 Table of 18 Difference 12 6 18 24 12 36 36 18 54 24 72 Now, the difference is table of 6, option (a) 42
- 11) Full shaded squares = 5
 Half shaded square = 4
 ∴ 4 half shaded means 2 full shaded squares
 Means 7 full shaded squares
 Area of 1 square = side × side
 = 4 × 4 = 16
 ∴ Area of 6 square = 16 × 7
 = 112 cm²
- 12) Sum of $\frac{2}{3}$ and $\frac{2}{3} + \frac{1}{9}$ (make denominators common) $= \frac{2 \times 3}{3 \times 3} + \frac{1 \times 1}{9 \times 1} = \frac{6+1}{9}$ $= \frac{7}{9} \times 2 \times 3 = 21$

- 13) Total marbles with sachin = 54

 Marbles with his brother = $\frac{5}{6} \times 54^9$ = 45

 Altogether = 54 + 45 = 99
- 14) $96 \times 7 = 672$ Now, $672 \div 8 = 84$
- 15) weight of bag of sweets and 7 oranges together = 3 kg 208 g = 3208 g weight of bag of sweet = 632 g \therefore weight of 7 oranges = 3208 632 = 2576 g weight of each orange = $2576 \div 7 = 368 \text{ g}$
- Wasim's age = 12 yrs
 ∴ Wasim's age is half of Ravi's age means,
 Ravi's age is double of wasim's age.
 ∴ Ravi's age = 24 yrs
 ∴ Raju's age = 24 4 = 20 yrs
 Raju's age 2 yrs ago = 20 2
 = 18 yrs
- 31st December is on Tuesday
 January 1, 2, 3, 4 will fall on days from
 Wednesday to Saturday.
 So the dates falling on Saturdays in the month of January is 4, 11, 18, 25
 So, the correct answer is option (b)
- 18) Per month scholarship = ₹150

 Amount saved per month = $\frac{1}{5} \times 150$ = ₹30

 ∴ Amount saved in the year = 30 × 12 months

 = ₹360
- 19) Distance between two points = 7 kilo metres
 The line is marked at equal distance. From A
 to F there are 10 equal distances and from F to
 D there are 4 points. In all distance covered
 = $14 \times 7 = 98 \text{ km}$
- 20) Children go by bus = 250
 Children go by bycycle = 250 × 2
 = 500
 Children go by foot = 250 + 500
 = 750
 Total number of students
 = 250 + 500 + 750 = 1500
- 21) The remainder is 2, hence digit '3' will be there in place of the bottom star. So, correct answer is option (c) 3.
- 22) Sum of each row = sum of each column = 27 $\therefore x = 27 - (14 + 10)$ = 27 - 24 = 3 $\therefore y = 27 - (5 + 13)$ = 27 - 18 = 9option (a) is correct.

- 23) Total amount Madan spent = 130 + 22.50 + 14.50 = ₹167 Amount he gets back = 200 - 167 = ₹33
- 24) Perimeter of 'A' = 18 cm
 Perimeter of 'B' = 36 cm
 so, perimeter of 'B' is 2 times perimeter of 'A'.
- 25) 60 coins × ₹0.50 = ₹30 ∴ you will get 6, ₹5 coins in exchange of 60 coins each worth 50 paise
- 26) 1784 463 = 1321 626 + 48 = 674 Now, 1321 + 674 = 1995 option (a), MCMXCV
- 27) A = 140 127 = 13 B = 132 + 75 = 207 Now, B - A = 207 - 13 = 194
- 28) Samir's height = 1 m 47 cm = 147 cm Chetan's height = 147 + 4 = 151 cm Milan's height = 151 - 4 = 147 cm = 1.47 m
- 29) It's 12: 10 O' clock in the clock. It is 6 mins fast, the correct time should be 12: 04.∴ There is 56 mins left for one O' clock.
- 30) Bundles are from number 12356 to 12406, means 51 notes of ₹10 each
 ∴ Total amount = 51 × 10
 = ₹ 510



MENTAL MATHS COMPETITION

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Father's Name

Surname

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3. Erase completely to change responses.
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