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

1. 6784 + 4308 = _____

(a) 11209   (b) 11902

(c) 11092   (d) 10192

2. 8367 − 3989 = _____

(a) 4178   (b) 4378

(c) 4738   (d) 4278

3.
```
    7 □ 3 9
+   1 9 8 3
    9 5 2 2
```
(a) 4   (b) 3

(c) 2   (d) 5

4.
```
    4 6 9 □
−   3 7 8 4
    0 9 0 6
```
(a) 0   (b) 1

(c) 3   (d) 2

5. 634 − □ = 179 _____

(a) 465   (b) 456

(c) 445   (d) 455

6. □ + 726 = 1103

(a) 376   (b) 367

(c) 377   (d) 378

7. 698 × 19 = _____

(a) 12262   (b) 13362

(c) 12362   (d) 13262

8. Find two consecutive multiples of 17 among given options?

(a) 153, 170   (b) 108, 119

(c) 51, 70   (d) 136, 154

9. 98 ÷ 14 = _____

(a) 6   (b) 5

(c) 4   (d) 7

10. When 145 is divided by 15, 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

12. $(13 \times 9) + (19 \times 2) - (14 \times 11)$ = _____

(a) 0   (b) 2

(c) 1   (d) 3

13. $\dfrac{3}{17} \times 119$ = _____

(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   (d) 91

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. $8\dfrac{1}{4}$ year = _____ months

(a) 109   (b) 99

(c) 89   (d) 79

28. $7\dfrac{1}{2} + 4\dfrac{1}{4}$ = _____ 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. $\dfrac{2}{5} = \dfrac{\square}{15}$, $\therefore \square$ = ?

(a) 6   (b) 5

(c) 7   (d) 30

31. $3 \times \dfrac{18}{81}$ = ____

(a) $\dfrac{1}{3}$ (b) $\dfrac{3}{2}$

(c) $\dfrac{2}{3}$ (d) $\dfrac{1}{2}$

32. If $\square\square\square\square\square\square$ = 42 ; what is $\square\square\square\square$?

(a) 7   (b) 14

(c) 28   (d) 35

33. ↑ → ↓ ← ↑ → ↓ ← ? The missing pattern is _____

(a) ↑ → ↓   (b) ↑ ↑ ↑

(c) ↓ ← ↑   (d) ↓ → ↑

34. Find missing number in given number bonds :

27	38	45	93
66	77	84	?
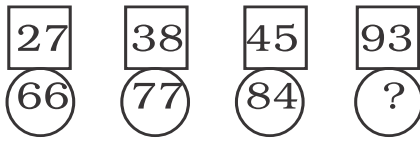
(a) 135   (b) 142

(c) 132   (d) 122

35. Find missing number in given number bonds

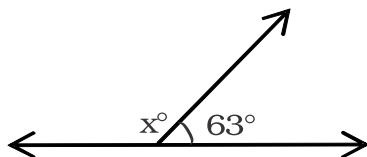| 11	16	13	19
88	128	104	?
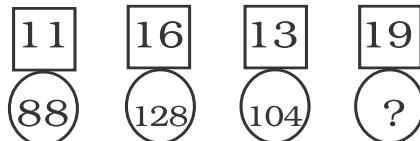
(a) 152   (b) 132

(c) 154   (d) 142

36. 37 + M = 62 + 48, M is ___ less then 100.

(a) 63   (b) 27

(c) 73   (d) 37

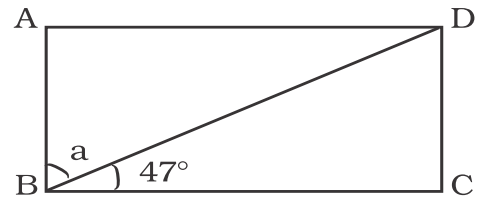**37.**

value of x = _____

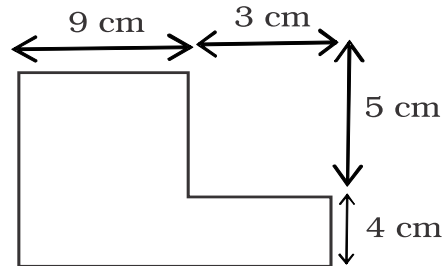(a) 116°   (b) 107°

(c) 127°   (d) 117°

38.

ABCD is a rectangle, ∠a = _____ + 26°

(a) 43°   (b) 27°

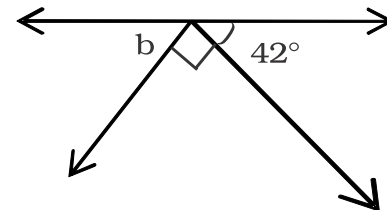(c) 17°   (d) 7°

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

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

(a) $40 \div$ ☐ $= 8$ (b) $24 \div$ ☐ $= 8$ (c) $16 \div$ ☐ $= 8$ (d) $32 \div$ ☐ $= 8$

42. At your skating party you noticed 30 legs on the outdoor ring. 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

43. The teacher baked a batch of muffins. There are 16 muffins in a 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

44. If ◇ × 4 = ☆ ; ☆ − ◇ = 330, then what is ☆ + ◇ ?

(a) 110   (b) 440   (c) 550   (d) 990

45. If 25th February 2016 falls on Wednesday, then 19th May 2016. will fall on _____

(a) Friday   (b) Tuesday   (c) Thursday   (d) Wednesday

46.

A	6	B	× 14 =	8	6	8

∴ A + B = ?

(a) 1   (b) 2   (c) 3   (d) 4

47. Add 550 to twenty five. How much should be added to this sum to get 100 tens ?
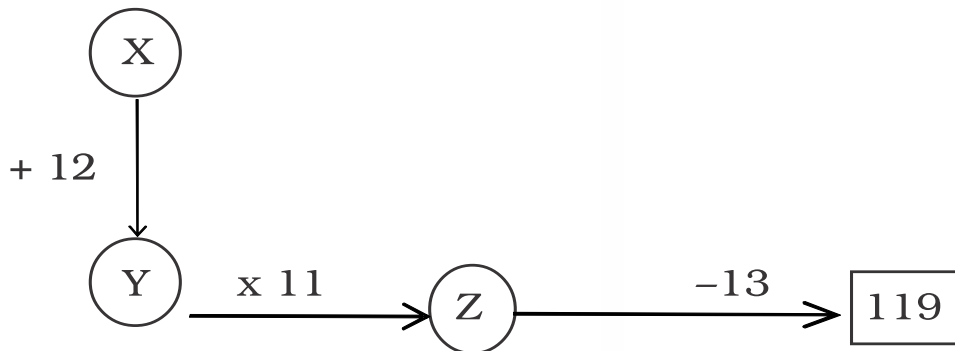
(a) 375   (b) 475   (c) 325   (d) 425

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   (d) 0

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  □  9
_____
    8  8  3  7
```
(a) 2   (b) 1
(c) 3   (d) 4

4.
```
    5  9  4  2
–   1  □  7  4
_____
    3  9  6  8
```
(a) 9   (b) 7
(c) 8   (d) 6

5. 594 – □ = 278 _____
(a) 306   (b) 316
(c) 326   (d) 216

6. 394 + □ = 777
(a) 363   (b) 373
(c) 393   (d) 383

7. 729 × 14 = _____
(a) 10106   (b) 12006
(c) 10206   (d) 10216

8. Find two consecutive multiples of 13 among given options?
(a) 91, 106   (b) 65, 76
(c) 78, 91   (d) 107, 130

9. 136 ÷ 17 = _____
(a) 7   (b) 8
(c) 9   (d) 11

10. When 1279 is divided by 11, 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. $(12 × 7) – (13 × 2) + (16 × 3)$ = _____
(a) 116   (b) 96
(c) 126   (d) 106

13. $\dfrac{4}{13} × 91$ = _____
(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) is _____

(a) 207　　　　　　(b) 197

(c) 209　　　　　　(d) 217

17. $(14 \times 8) \div (4 \times 4)$ = _____

(a) 5　　　　　　　(b) 6

(c) 8　　　　　　　(d) 7

18. 42nd 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　　　　　　(d) 92

SECTION - 2

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

(a) 693   (b) 694

(c) 793   (d) 695

22. 70 + 69 + 68 + 67 + 64 + 63 + 60 + 59 + 58 + 57 = _____

(a) 637   (b) 535

(c) 645   (d) 635

23. The sum of (13×4) and (15×9) is _____

(a) CLXXXVI   (b) CLXXXVIII

(c) CLXXVII   (d) CLXXXVII

24. (LXIX less then CCCXXVII) – (CIX more than XCVIII)

= _____

(a) L   b) XLI

(c) LI   (d) LXII

25. 11.09 l = ____ l ____ ml

(a) 11 l 9 ml (b) 11 l 90 ml

(c) 11 l 09 ml (d) 11 l 19 ml

26. 9 hrs 39 mins = _____ mins

(a) 589   (b) 569

(c) 578   (d) 579

27. $9\dfrac{3}{4}$ year = _____ months

(a) 127   (b) 107

(c) 117   (d) 116

28. $6\dfrac{3}{4}+2\dfrac{1}{2}$ = _____ quarters

(a) 37   (b) 27

(c) 47   (d) 39

29. 7, 14, 23, 30, 39, ✸ ,55 value of ✸ is _____.

(a) 46   (b) 48

(c) 47   (d) 45

30. $\dfrac{102}{72}=\dfrac{\square}{12}$, $\therefore \square$ = ?

(a) 16   (b) 18

(c) 15   (d) 17

31. $4\times\dfrac{12}{64}$ = ____

(a) $\dfrac{1}{4}$ (b) $\dfrac{3}{4}$

(c) 4   (d) $\dfrac{5}{4}$

32. If $\square\square\square\square\square\square$ = 63 ; what is $\square\square\square$?

(a) 17   (b) 21

(c) 27   (d) 25

33. ○ □ ⊡ △ □ △ □ △ ___ ? The missing pattern is _____

(a) [△]

(b) Ⓐ (circle with triangle)

(c) △ (triangle with small triangle)

(d) △ (triangle with small square)

34. Find missing number in given number bonds :

37	59	41	12
(90)	(112)	(94)	( )

(a) 75   (b) 55

(c) 65   (d) 45

35. Find missing number in given number bonds

19	17	15	13
(76)	(68)	(60)	( )
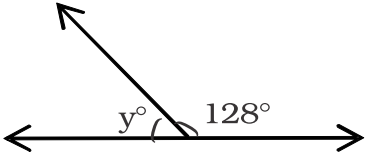
(a) 32   (b) 52

(c) 65   (d) 62

36. $23 + 91 = P - 36$, P is ___ less then 150.

(a) 1   (b) 2

(c) 0   (d) 3

37.

Value of y = _____

(a) 52°   (b) 42°

(c) 54°   (d) 62°

38.

PQRS is a rectangle, ∠b = _____ + 18°

(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. $\frac{5}{8} = \frac{25}{\text{✬}} = \frac{\text{✳}}{64}$, subtract ✬ from ✳ ?

(a) 2   (b) 40   (c) 0   (d) 1

42. 35 ☐ 7 ☐ 5 ☐ 2 = 15, which of the below options is correct?

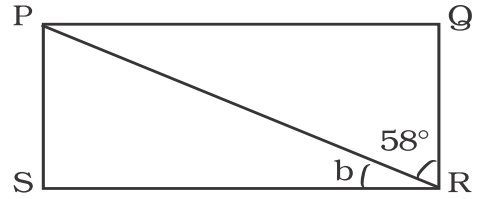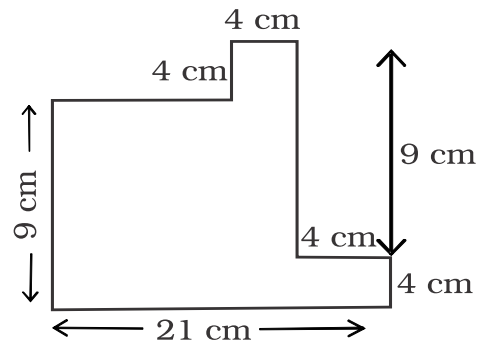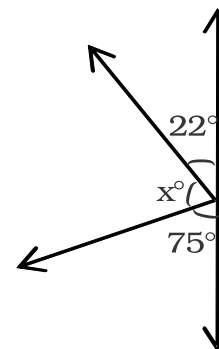(a) +, ×, ÷   (b) ÷, −, ×   (c) ÷, +, −   (d) ÷, +, ×

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.

$\frac{45}{30} = \frac{\square}{\square}$ } A $\frac{16}{24} = \frac{\square}{\square}$ } B

(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 5th multiple of 9 by the 2nd multiple of 3. The sum of the remainder and the quotient is _____ ?

(a) 3   (b) 4   (c) 7   (d) 10

48. The figure below shows a rectangle and a square find ∠a ?
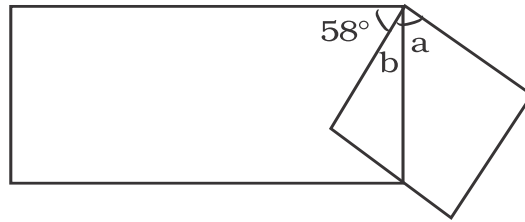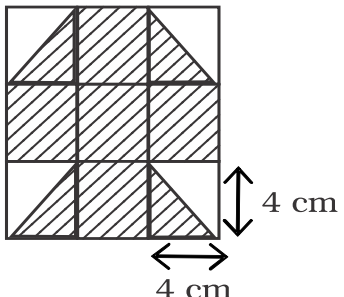
(a) 32°   (b) 42°   (c) 58°   (d) 122°

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 years old today. He is elder to his brother by 6 years. What will be the sum of ages of two, 7 years hence ?

(a) 49   (b) 42   (c) 56   (d) 38

2. 4 ☐ 3 ☐ is a number divisible by 11 and the digits in the ☐ place are the same. Find the digit from the following.

(a) 5   (b) 2   (c) 3   (d) 9

3. The total cost of 7 books and 13 notebooks is ₹234. If the cost of each note book is ₹11, what is the cost of each book ?

(a) 13   (b) 12   (c) 11   (d) 14

4. Priya started study in the morning exactly at 8:30 am. She studied for 50 minutes. Then took rest for 20 mins. Then she looked at the watch what time was it?

(a) 9 : 30 pm   (b) 9 : 40 pm   (c) 9 : 30 am   (d) 9 : 40 am

5. $\dfrac{XLVI + XXVIII + XVI}{XIV + VIII - VII} = ?$

(a) 4   (b) 6   (c) 5   (d) 8

6. In the given example of division, the remainder is 0. Find the value of ☐ + ✫

$$17\overline{)5✫8}\ \ 3☐$$

(a) 7   (b) 4   (c) 5   (d) 11

7. A water tank of capacity 56 litre is filled with 35 litre of water. What part of tank is empty?

(a) $\dfrac{5}{8}$ (b) $\dfrac{3}{7}$ (c) $\dfrac{3}{8}$ (d) $\dfrac{5}{7}$

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

4 cm

4 cm

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   (d) 109

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. 1st of January is on Wednesday. If 2nd and 4th 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.

```
  0 7  14        42    56        84
 ←+—+—+—+—+—+—+—+—+—+—+—+—+→
  P   A    B    C    D    E    F
```

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   (d) 1250

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

```
          ☆ 7
      ┌─────────
  1☆ ) 4 8 ☆
      – ☆ 9
      ─────────
        0 9 ☆
        – 9 1
      ─────────
          0 2
```

(a) 2　　　　　　　　(b) 4

(c) 3　　　　　　　　(d) 0

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.
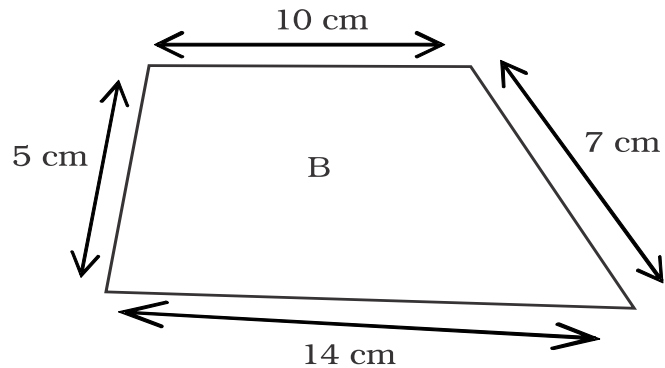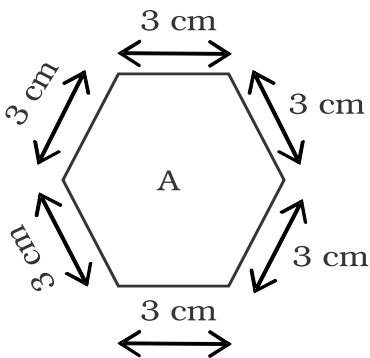
14	x	10
5	y	13
8	15	4

(a) 3, 9　　　　　　　(b) 2, 9

(c) 9, 3　　　　　　　(d) 4, 10

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　　　　(d) 16

26. (MDCCLXXXIV - CDLXIII) + (DCXXVI + XLVIII) = _____

(a) MCMXCV   (b) MCDXV   (c) MCXCV   (d) MDXCV
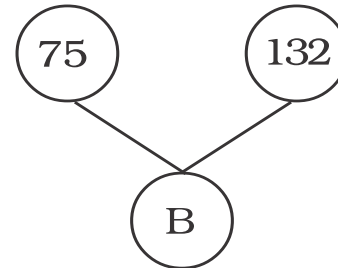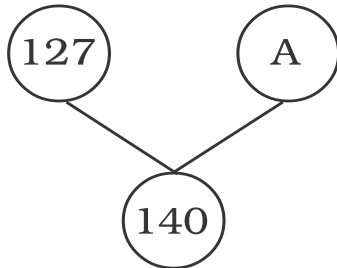
27. Look at the number bonds below _____

127   A   75   132

140   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 ?

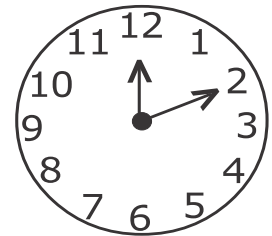(a) 1.51 m   (b) 1.46 m   (c) 1.41 m   (d) 1.47 m

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

Mock paper - 2

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

Extra Practice Question Paper
(Section - 3)

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

SECTION 3 (Solutions)

Mock Paper - 1

41) Option (d) is correct as

$$32 \div \boxed{4} = 8$$

42) Total legs = 30
4 dogs = 4 × 4 legs = 16
7 people = 7 × 2 legs = 14
Total = 30
∴ its 4 dogs and 7 peoples

43) Muffins in one batch = 16
Muffins ate = 4
Muffins left = 16 – 4 = 12
Made 2 more batches
= 2 × 16 = 32
(+) Muffins left over 12
44

44) ◇ × 4 = ✶ → ①
✶ – ◇ = 330 → ②
∴ ✶ = 300 + ◇
Substitute value of ✶ in ①
◇ × 4 = ✶
◇ × 4 = 330 + ◇
4 ◇ – ◇ = 330
3 ◇ = 330
◇ = 330 ÷ 3 = 110
Now, ✶ – ◇ = 330
✶ – 110 = 330
✶ = 330 + 110
= 440
∴ ✶ + ◇ = 440 + 110
= 550

45)

Month	No. of days
Feb (29 - 25)	4
March	31
April	+ 30
May	+ 19
Total days	84

Now, divide 84 by 7, as in a week there are 7 days 84 ÷ 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	B
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 = 4707
Now 4707 ÷ 9 = 523

50) Do, working backwards ....
So, Z = 119 + 13 = 132
Y = 132 ÷ 11 = 12
X = 12 – 12 = 0

Mock Paper - 2

41) $\dfrac{5}{8} \times \dfrac{5}{5} = \dfrac{25}{✶}$, ∴ ✶ = 40

$\dfrac{5}{8} \times \dfrac{8}{8} = \dfrac{❋}{64}$, ❋ = 40

Now, subtract ✶ from ❋
❋ – ✶ = 40 – 40 = 0

42) $35 \boxed{\div} 7 \boxed{+} 5 \boxed{\times} 2 = 15$ Use, DMAS
5 + 5 × 2 = 15
5 + 10 = 15
15 = 15
Option (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 = $\dfrac{45}{30} = \dfrac{3}{2}$ (Reduced form)

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

Now, A + B = $\dfrac{3}{2} + \dfrac{2}{3}$
Make denominators common

So, $\dfrac{3 \times 3}{2 \times 3} + \dfrac{2 \times 2}{3 \times 2} = \dfrac{9 + 4}{6} = \dfrac{13}{6}$

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) 5th Multiple of $9 = 9 \times 5 = 45$
2nd Multiple of $3 = 2 \times 3 = 6$
Now, divide 45 by 6, the quotient is 7 and Remainder is 3.
∴ Quotient + Remainder
$= 7 + 3 = 10$

48) Each angle of a rectangle is 90°
∴ $58° + b = 90°$
∴ $b = 90° - 58° = 32°$
Each angle of a square is also 90°
∴ $b + a = 90°$
∴ $58° + a = 90°$
∴ $a = 90° - 32°$
$a = 58°$

49) Area of rectangle $= 32cm^2$
Length = 8 cm
∴ Area = L × b
$32 = 8 \times b$
∴ $b = \dfrac{32}{8} = 4$ 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, $4 + 3 = 7$
$9 + 9 = 18$
Now $18 - 7 = 11$
So, '9' should be the digit in the ☐.

3) 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) $\dfrac{46}{14} \quad \dfrac{28}{8} \quad \dfrac{16}{7}$

$\dfrac{90}{15} = 6$

6) Remainder is 0,
☐ = 4
✦ = 7
∴ ☐ + ✦
$4 + 7 = 11$

$\begin{array}{r} 3\ 4 \\ 17\overline{)578} \\ -51\downarrow \\ \hline 68 \\ -\ 68 \\ \hline 00 \end{array}$

7) Capacity of water tank = 56 l
35 l is filled
∴ Empty = 56 – 35 = 21l
∴ fraction part empty
$= \dfrac{21}{56} \quad \dfrac{3}{8}$

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

10) Misha multiplied it by 12
Nisha multiplied it by 18

Table of 12	Difference	Table of 18
12	6	18
24	12	36
36	18	54
48	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
$= 4 \times 4 = 16$
∴ Area of 6 square = 16 × 7
$= 112$ cm²

12) Sum of $\dfrac{2}{3}$ and

$\dfrac{2}{3} \quad \dfrac{1}{9}$ (make denominators common)

$= \dfrac{2 \times 3}{3 \times 3} + \dfrac{1 \times 1}{9 \times 1} = \dfrac{6}{9} \quad \dfrac{1}{9}$

$= \dfrac{7}{9}\ 2\!\!\!/\ \dfrac{3}{1} = 21$

13)   Total marbles with sachin = 54

   Marbles with his brother = $\dfrac{5}{6} \times \overset{9}{54}$

          = 45

  Altogether = 54 + 45 = 99

14)   96 × 7 = 672

  Now, 672 ÷ 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

  ∴ weight of 7 oranges = 3208 − 632 = 2576 g

  weight of each orange = 2576 ÷ 7 = 368 g

16)   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

17)   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 = $\dfrac{1}{5} \times 150$

          = ₹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 × 7 = 98 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

  ∴ x = 27 − (14 + 10)

    = 27 − 24 = 3

  ∴ y = 27 − (5 + 13)

  = 27 − 18 = 9

  option (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 ®

Name of Student in Full (IN CAPITAL LETTERS) :-

_____

| Name | Father's Name | Surname |

School Name _____

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Examination Centre _____ Date : _____

ANSWERS

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GLOBAL MATHS SCIENCE EDUCATION

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