MUMBAI MATH CHAMPIONSHIP

MOCK TEST – Grade 4

Total Marks: 100   **Time Duration: 1 hour**

Section: Logical Reasoning

Question 1: Spriha has 6 cards with numbers 4, 5, 6, 7, 8 and 9. She has to use all the cards once and form a possible largest 6-digit number such that:

- The largest digit is placed in the smallest place value column.

a) 7,86,549

b) 8,76,549

c) 7,68,549

d) 9,76,548

Question 2: Use the operations (+, -, x, ÷) to make the following statement true:

84   12   2

(a) 84 – 12 x 2
(b) 84 + 12 + 2
(c) 84 ÷ 12 +2
(d) 84 ÷ 12 – 2

Question 3: Rohan has ₹ 250 more than Neha. Priya has ₹ 600 less than Neha. Who has the most amount of money?

(a) Rohan
(b) Neha
(c) Priya

(d) Both Rohan and Priya

Question 4: Jar A can hold more water than Jar C but less than Jar B. Which jar can hold the least amount of water if Jar D holds the maximum amount of water?

    (a) Jar A
    (b) Jar B
    (c) Jar C
    (d) Jar D

Question 5: If 'M' represent multiplication then which of the following will be 560?

    (a) 7*2*8*0
    (b) 7*8*2*5
    (c) 7*2*5*1
    (d) None of these

Section: Mental Math

Question 6: A tape of 5 m is cut into 10 equal lengths. How long will each piece be?

    (a) 0.5 m
    (b) 0.25 m
    (c) 2 m
    (d) 50 m

Question 7: Add the following fractions:

$$2\frac{1}{2} + \frac{5}{3}$$

(a) $6\frac{1}{6}$
                                  (c) $4\frac{1}{2}$

(b) $4\dfrac{1}{6}$ (d) $6\dfrac{1}{2}$

Question 8: There are 5 rows of desks in a class. Each row has 6 desks. If 2 students sit on each desk, what is the total number of students that can be accommodated in the classroom?

(a) 30
(b) 22
(c) 15
(d) 60

Question 9: Smyra has an empty water bottle of 200 ml. Mahima has a big bottle of 2 L. How many bottles of Smyra will be sufficient to fill Mahima's bottle?

(a) 10
(b) 100
(c) 200
(d) 400

Question 10: Solve: 47 - 73 + 26 - 34

(a) 0
(b) -34
(c) +34
(d) 112

Question 11: How do we write Roman Numerical XIV in words?

(a) Thirteen
(b) Fourteen
(c) Fifteen
(d) Sixteen

Question 12: The time on the 12-hour clock is 3:20 pm. Monika says we can write it as 15:20 hours in a 24-hour clock. Is Monika correct?

    (a) No, it will be 13:20 hours
    (b) Cannot be determined
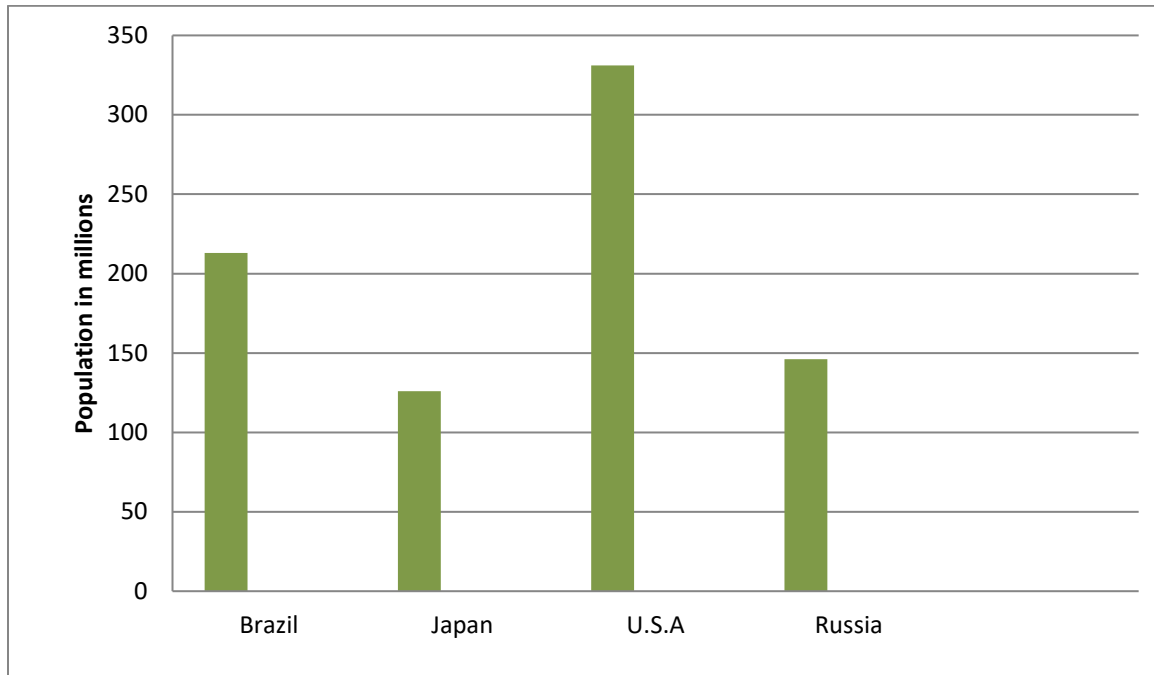   (c) Yes
    (d) No, it will be 15:20 pm

Question 13: Sam has 10 notes of denomination 200 and 5 coins of denomination 10. How much money does he have altogether?

    (a) ₹ 200
    (b) ₹ 2,000
    (c) ₹ 2,010
    (d) ₹ 2,050

Question 14: If the two angles of a triangle are 40˚ and 50˚. What will be the measure of the third angle?

    (a) 10˚
    (b) 50˚
    (c) 90˚
    (d) 190˚

Question 15: Which country has the lowest population, according to the chart given below?

(a) Brazil
(b) Japan
(c) U.S.A
(d) Russia

Section: Math

Question 16: Arrange the numbers in ascending order:

6,56,235; 6,65,235; 5,56,290; 5,65,335; 6,55,550

(a) 6,56,235 < 6,65,235 < 5,56,290 < 5,65,335 < 6,55,550
(b) 5,56,290 < 5,65,335 < 6,55,550 < 6,56,235 < 6,65,235
(c) 6,56,235 < 6,65,235 < 5,65,335 < 6,55,550 < 5,56,290
(d) 5,56,290 < 5,65,335 < 6,55,550 < 6,56,235 < 6,65,235

Question 17: A train leaves Station A at 10:45 am. It takes 2 hours and 30 minutes to reach station B. At what time will it reach station B?

(a) 12 noon
(b) 1:15 am
(c) 1 o'clock
(d) 1:15 pm

Question 18: Sachin says 20,000 m is greater than 20 km. Priya says 2,00,000 m is greater than 20 km. Who is correct?

(a) Sachin
(b) Priya
(c) Both are correct
(d) Both are incorrect

Question 19: What will be the area of the given figure if length of the figure is 5 cm more than the width of the given figure.

7cm

(a) 35cm²
(b) 19 cm²
(c) 84 cm²
(d) 40 cm²

Question 20: What is half of a quarter?

(a) ⅛
(b) ½
(c) ¼
(d) ¾

Question 21: A family's milk consumption for a month is 62 liters. Calculate their milk consumption for 2.5 months.

(a) 100 liters
(b) 125 liters

Question 22: A train has to reach the station at quarter past 6in the evening. The train is late by 45 minutes. At what time will it reach the station?

(a) 6:15 pm

(b) 6:30 pm

(c) 6:45 pm

(d) 7:00 pm

Question 23: A family of 5 people needs 50 kg of wheat in a month. If the cost of wheat is ₹ 45 per kg, how much does the family pay for the wheat every month?

(a) ₹2,250

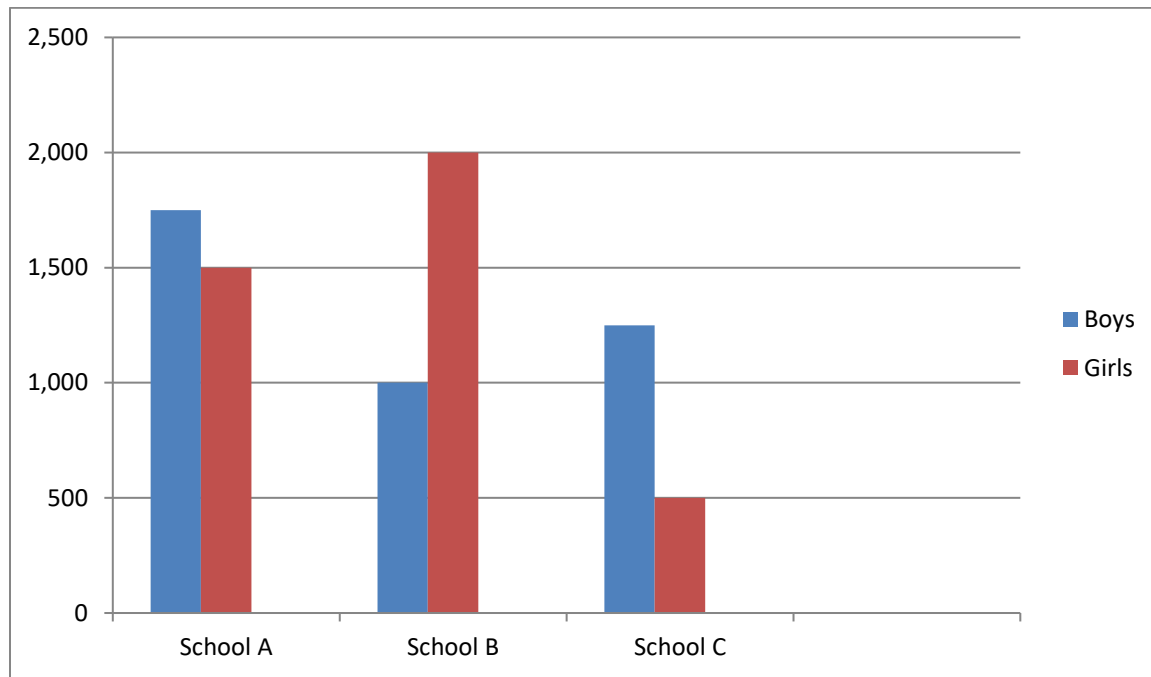(b) ₹ 225

(c) ₹ 2,475

(d) ₹ 2,275

Question 24: Sara lives 800 meters away from her friend Monica's house. If the distance between their houses is half of the distance between Sara's house and her school. How far does Sara live from her school?

(a) 1.6 km

(b) 160 m

(c) 1.06 m

(d) 16,000 m

Question 25: The cost of 1 orange is 2 rupees 50 paise. Find the cost of one dozen oranges.
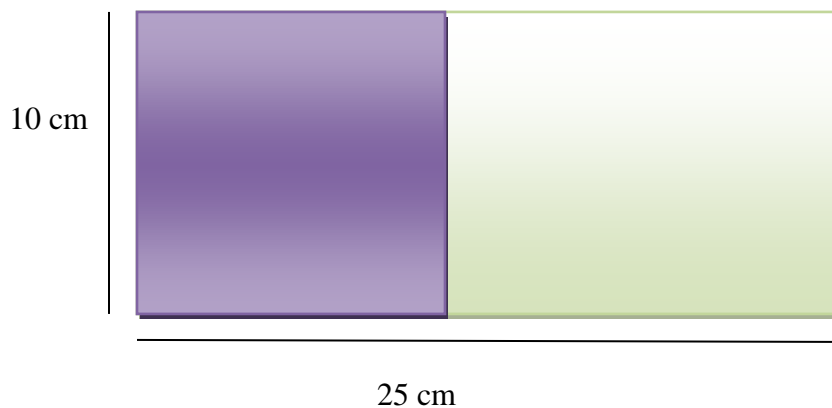
(a) ₹ 24

(b) ₹ 26

(c) ₹ 30

(d) ₹ 36

Question 26: Look at the following bar graph and answer the following question:

What is the fraction of the number of boys in school B to the number of girls in school A?

(a) ⅓
(b) ⅔
(c) ¼
(d) ½

Question 27: Find the area of the green region, if the purple region denotes a square.

10 cm

25 cm

(a) 250 cm²
(b) 100 cm²
(c) 350 cm²

(d) 150 cm²

Question 28: The day on 26ᵗʰ February, 2020 was Wednesday. What was the day on 3ʳᵈ March, 2020?

(a) Sunday
(b) Monday
(c) Tuesday
(d) Wednesday

Question 29: Rahim has 5, 10 paise coins and 10, 5 paise coins. How much money does he have altogether?

(a) 50 paise
(b) 100 paise
(c) 30 paise
(d) 20 paise

Question 30: Sonal has prepared 2,256 ml of juice. She has to give it equally to each of her family member. If she lives with her husband and 2 children, what is the amount of juice each one will get?

(a) 564 ml
(b) 566 ml
(c) 554 ml
(d) 574 ml

Section: Achiever section

Question 31: What is the difference between the place value of 1000's digit and face value of 100's digit of the smallest 6-digit number formed by the digits 1, 9, 7, 0, 8 and 5?

(a) 4,993
(b) 4,093
(c) 4,930
(d) 5,993

Question 32: How many (1/18) s are needed to make 16 more than (11/6)?

(a) 231
(b) ⅔
(c) ¾
(d) 321

Question 33: Among 56289 – 10, 56289 +10 and 56289 x 10, what is the difference between the greatest and the smallest number?

(a) 20
(b) 5,06,611
(c) 5,06,591
(d) 5,00,000

Question 34: The World Mathematics Championship is about to be held on some day in October this year.

The date of the competition was announced in the news and it is scheduled for 3 weeks and 4 days after Gandhi Jayanti.

Using the calendar below find the day on which competition will be held.

October 20XX						
SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

(a) 21st October

(b) 23rd October

(c) 26th October

(d) 27th October

Question 35: Find the weight of in grams if the reading on the first machine is 3.8 kg and on the second machine is 7.2 kg.

(a) 800 g

(b) 600 g

(c) 200 g

(d) 180 g
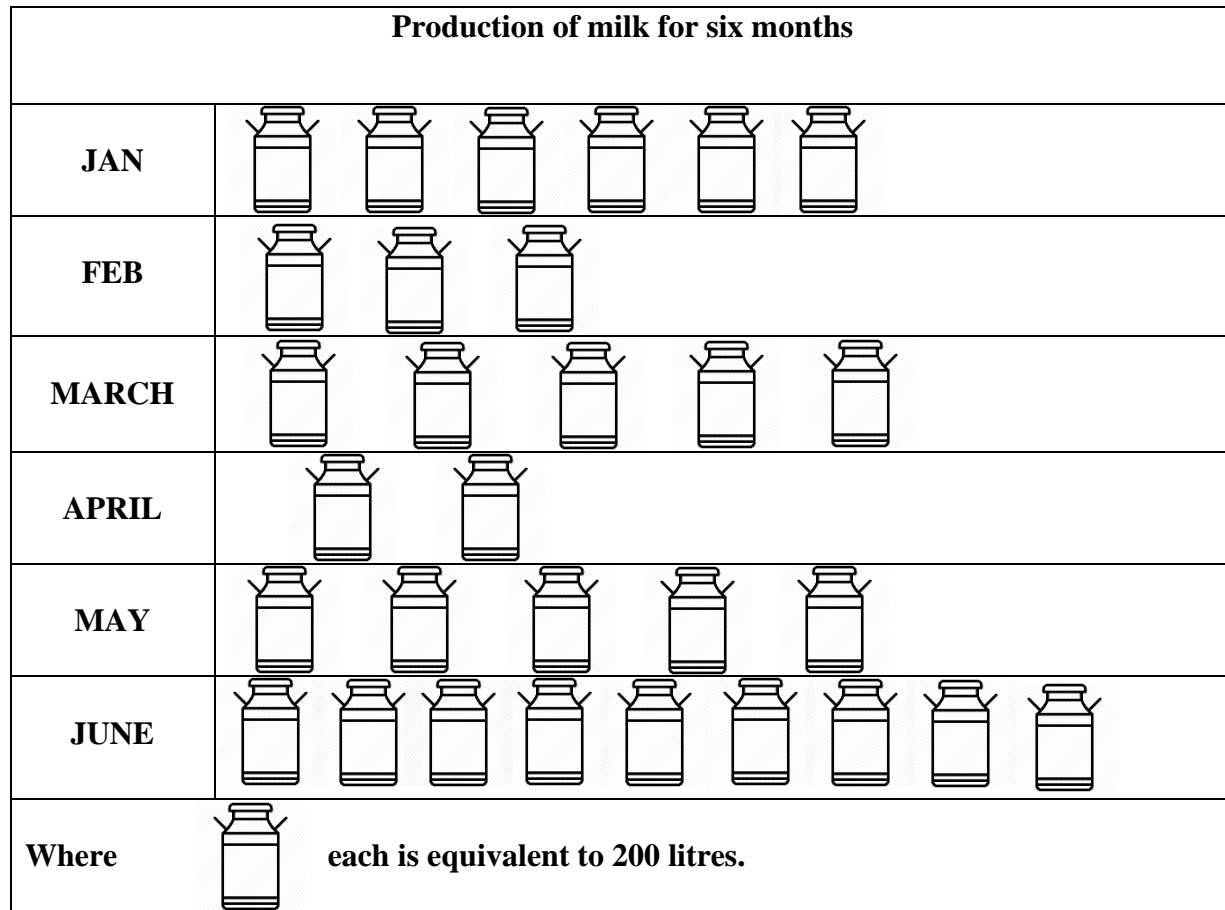
Question 36: Evaluate:

$$\frac{12}{18} \times \frac{16}{9} \times \frac{3}{15} + \frac{1}{5} \times \frac{35}{8} - \frac{7}{8}$$

(a) $\frac{7}{8}$

(b) $\frac{8}{132}$

(c) $\frac{32}{40}$

(d) $\frac{32}{135}$

Question 37: The pictograph given below shows the amount of milk produced by a local dairy farm over a few months.
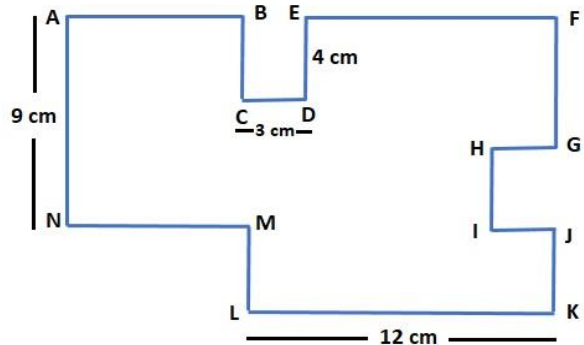
Production of milk for six months	
JAN	
FEB	
MARCH	
APRIL	
MAY	
JUNE	
Where each is equivalent to 200 litres.	

(a). In which month did the dairy produce 4,00,000 ml of milk?

(b). How much more did the dairy produce the milk in liters in June than in January month?

  (a)   (b)

A. January   1000 liters

B. April   600 liters

C. March   28000 liters

D. June   350 liters

Question 38: Find the perimeter of the given figure, if BE = GH = HI, AN = FJ, KL = FB, BC = ML and sum of length of AB and EF is 15 cm.

(a) 71 cm
(b) 72 cm
(c) 73 cm
(d) 74 cm

Question 39: Match the given roman numerals in the table given below with the digit of tens place of their equivalent Hindu – Arabic numerals

Column 1	Column 2
(a) LXXIX + XXXIV	(i) 4
(b) XCVIII + XLIX	(ii) 1
(c) LXXXIX + XXVII	(iii) 2
(d) LIV + LXVI	(iv) 1

	(a)	(b)	(c)	(d)
A.	(i)	(ii)	(iii)	(iv)

B.   (iv)   (iii)   (ii)   (i)

C.   (iii)   (i)   (iv)   (ii)

D.   (iv)   (i)   (ii)   (iii)

Question 40: Sumitra works as a part time tutor on weekdays and full-time tutor on weekends and gets her payment an hourly basis.

Last week Sumitra worked 4 hours daily on weekdays6 hours on weekends. If she received a total amount of ₹ 16,000 for one week.

Find the amount she gets paid for every hour of her work.

   (a) ₹ 1,000
   (b) ₹ 200
   (c) ₹ 500
   (d) ₹ 1,600

Answers

   1. (b) 8,76,549
   2. (d) 84 ÷ 12 – 2 = 5
   3. (a) Rohan
   4. © Jar C
   5. (b) 7*8*2*5
   6. (a) 0.5 m
   7. (b)
   8. (d) 60
   9. (a) 10
   10. (b) -34
   11. (b) Fourteen
   12. © Yes
   13. (d) ₹ 2,050
   14. © 90˚
   15. (b) Japan

16. (b) 5,56,290 < 5,65,335 < 6,55,550 < 6,56,235 < 6,65,235
17. (d) 1:15pm
18. (b) Priya
19. © 35 cm²
20. (a) ⅛
21. © 15 ml
22. (d) 7:00 pm
23. (a) ₹ 2,250
24. (b) 1.6 km
25. © ₹ 30
26. (b) ⅔
27. (d) 150 cm
28. © Tuesday
29. (b) 100 paise
30. (a) 564 ml
31. (a) 4,993
32. (d) 321
33. (b) 5,06,611
34. (d) 27th October
35. (c) 200 g
36. (d) $\frac{32}{135}$
37. (B) April   600 liters
38. (c) 73 cm
39. D   (iv)   (i)   (ii)   (iii)
40. (c) ₹ 500