# MAT | Class 4 | DPSG

## Delhi Public School Gandhinagar
## Academic Session 2024-25
## Mathematics Aptitude Test (MAT)

| Total Questions : 35 | Guidelines for the Candidate | | | Time : 1 hr |
|---|---|---|---|---|

| PATTERN & MARKING SCHEME | | | | |
|---|---|---|---|---|
| Section | (1) Logical Reasoning | (2) Mathematical Reasoning | (3) Everyday Mathematics | (4) Achievers Section |
| No.of Questions | 10 | 10 | 10 | 5 |
| Marks per Ques. | 1 | 1 | 1 | 1 |

All the questions are compulsory.

## LOGICAL REASONING

1. In the following question which alternative will replace the question mark. 4 is to 16 as 12 is to?

   a) 24           b) 48           c) 42           d) 46

2. What will be the last cloud number?

   

   a) 3000          b) 4500          c) 1300          d) 2800

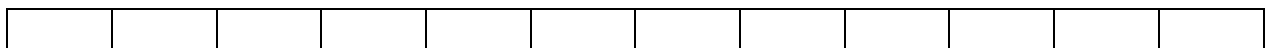3. Which of the following words cannot be formed from the letters of the given word?

   ### GEOMETRICAL

   a) CLAIM       b) CREAM       c) MAGIC       d) AMONG

4. Which letter does not fit into the group? (Hint-vowels)

   | A | D | E | O |
   |---|---|---|---|

   a) A           b) D           c) E           d) O

5. If 2/3 of the twelve small squares in the given figure are removed, how many squares remain?

   

   a) 2           b) 3           c) 4           d) 8

6. Identify the total value of the combination of money.

   ₹ 5,  ₹ 10,  ₹ 20,  ₹ 50,  ₹ 500,  ₹ 200,  50p,  25p

   a) ₹ 600 and 25p     b) ₹ 550 and 75p     c) ₹ 480 and 50p     d) ₹ 785 and 75p

**7.** Find 3 different ways to make the number 199.

a) 99 +100, 198 + 1, 90 +109
b) 99 + 1, 98 + 2, 90 + 10
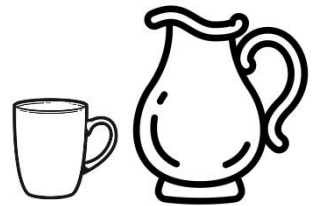c) 99 +100, 90 + 109, 190 + 19
d) 99 + 2, 98 + 11, 90 + 9

**8.** The pictograph shows the number of teenagers who attended a youth programme on four different days is as follows. How many teenagers attended the programme over the four days? (Round to the nearest hundreds)

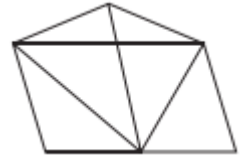| No. of teenagers who attended a youth programme | |
|---|---|
| Thursday | ☿ ☿ ☿ ☿ |
| Friday | ☿ ☿ ☿ ☿ ☿ ☿ ☿ |
| Saturday | ☿ ☿ ☿ ☿ ☿ ☿ ☿ ☿ ⸂ |
| Sunday | ☿ ☿ ☿ ☿ ☿ ☿ ☿ ☿ |
| Each ☿ represents 10 teenagers | |

a) 280          b) 300          c) 200          d) 275

**9.** A jug of capacity 1.5 litres can fill 5 mugs of water. How much water does each mug holds?

a) 500 ml
b) 400 ml
c) 300 ml
d) 450 ml

**10.** How many triangles are there in the given figure?

a) 11
b) 12
c) 10
d) 14

## MATHEMATICAL REASONING

**11.** 12 noon is also written as _____.

a) 0012 hours          b) 0000 hours          c) 1200 hours          d) None of these

**12.** How much more minutes are required to get 8'o clock?

a) 15 minutes
b) 45 minutes
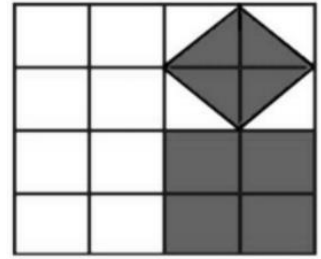c) 10 minutes
d) 60 minutes

**13.** Which of the following Roman numerals is correct?

a) XV          b) XVIXI          c) IXIV          d) XIXI

**14.** Study the figure given. What fraction of the figure is unshaded?

a) $\frac{3}{4}$

b) $\frac{3}{8}$

c) $\frac{5}{8}$

d) $\frac{2}{8}$



**15.** How many minutes were there in the month of February 2024?

a) $28 \times 24 \times 60$      b) $30 \times 24 \times 60$      c) $31 \times 24 \times 60$      d) $29 \times 24 \times 60$

**16.** Mohan father needs to pay ₹ 4500 for Mohan quarterly school fees. He has the following amount with him. How much more amount father needs so that he can pay ₹. 4500 as quarterly fees?
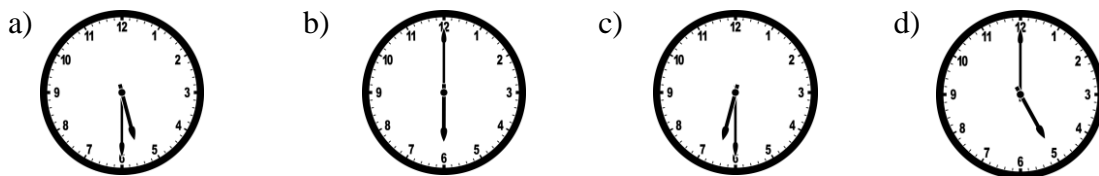
- 2 note of ₹ 1000
- 3 notes of ₹ 500
- 5 note of ₹ 100
- 2 notes of ₹ 50

a) ₹ 150      b) ₹ 590      c) ₹ 400      d) ₹ 190

**17.** 5700 + _____ tens = 10,000.

a) 430      b) 530      c) 430      d) 150

**18.** Mohit went for swimming at 2:30 p.m. and returned back home $2\frac{1}{2}$ hours later. The time he came back home is _____.

a)      b)      c)      d)



**19.** Thrice of 73 – twice of 73

a) 30      b) 73      c) 11      d) 66

**20.** There are _____hundreds in 36500.

a) 12      b) 36      c) 365      d) 3652

## EVERYDAY MATHEMATICS

**21.** The flight from Chennai to Dubai took off at 4:45 hours. It landed in Dubai at 9:15 hours. How long was the flight?
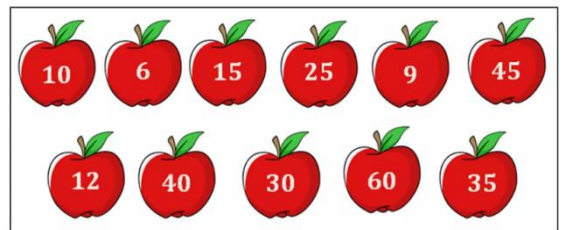
a) 4 hours 10 min      b) 4 hours 30 min      c) 4 hours 50 min      d) 3 hours 55 min

**22.** A city has a population of 92582. Round off to the nearest hundreds.
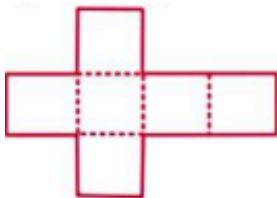
a) 92500      b) 92600      c) 93500      d) 92580

**23.** Mr. Sharma invited 276015 guests in his daughter's marriage. Which of the following option shows the correct number name for number of guests invited by him?

a) Two lakh seventy six thousand nine hundred and five
b) Two lakh seventy six thousand and fifteen
c) Twenty seven lakh six thousand ninety five
d) Twenty seven lakh six thousand nine hundred and five

**24.** Aman is XXI years old. Raghav is XV years older than Aman. The sum of their ages (in years) is _.

a) 57          b) 52          c) 38          d) 29

**25.** Purvi travelled 45 km 750 m on Friday, 52 km 435 m on Saturday and 67 km 864 m on Sunday from her home and reached her grandparent's home. How far is Purvi's grandparent's home from her home?

a) 166 km 409 m     b) 166 km 49 m     c) 165 km 409 m     d) 166 km 490 m

**26.** A teacher brings a bag of crayons to distribute to her class of 40 children. If she plans to give 1 set of 8 crayons to each child and have no extra crayons in the bag, then how many crayons should be there in the bag?

a) 48          b) 320          c) 45          d) 49

**27.** How many of the given apples show the common multiples of 3 and 5?

a) 2
b) 3
c) 4
d) 5



**28.** Varun made a shape by folding the given cardboard along the dotted lines.



Which shape did Varun make?
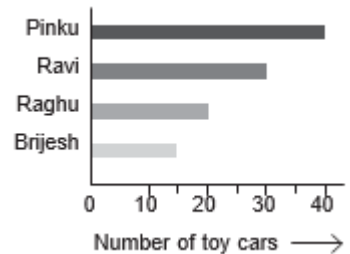
a)          b)          c)          d)



**29.** Pooja went to a movie with her friend. She bought two movie tickets for ₹250 each, 2 cold drinks for 20 each and 2 packets of popcorn. What information is needed to find the total amount spent by her?

a) The number of people in the movie
b) The name of the movie
c) Cost of a cold drink
d) Cost of a packet of popcorn

**30.** Sara's user ID is a 5-digit number. The 9 is in the ten thousand place. The 0 is in the ones place. And 8 is in the thousands place. And 4 is in the tens place. And 2 is in the hundreds place. What is Sara's user ID number?

    a) 90, 842             b) 98, 240             c) 89, 204             d) 98, 420

## ACHEIVER'S SECTION

**31.** Pinku, Ravi, Brijesh and Raghu are friends. The graph shows the number of toy cars each of them have. What can we conclude from the given graph?

a) Brijesh has one-third the numbers of toy cars Pinku has.
b) Three children have more than 20 toy cars.
c) Ravi has twice as many toy cars as Brijesh has.
d) Brijesh has 1 toy car less than Raghu



**32.** Sanchi thinks of two numbers.

> • The difference between the numbers is 8.
> • The product of the numbers is 128.
> • Both the numbers are even numbers.

What is the sum of the value of numbers and value of smaller number?

    a) 28, 4             b) 24, 8             c) 32, 8             d) 24, 16

**33.** How many of the following figures are symmetrical?



    a) 5             b) 7             c) 8             d) 6

**34.** $\frac{1}{7}$ of the class 4 students choose to join swimming. $\frac{1}{3}$ of the remaining students choose to join running. If there were total 126 students, then how many

A. students choose to join swimming?

    a) 16             b) 16             c) 18             d) 18

B. more students choose to join running than swimming?

    a) 18             b) 48             c) 42             d) 18

**35.** Sneha is practicing for a race. She uses the given map to find the possible routes. The route must start from her school and end at home. She wants to run the shortest route. Which of the following is the best route?

a) School Market - Church - Home
b) School - Lake - Home
c) School - Mall - Lake Home
d) School - Mall - Museum - Home

# ANSWER KEY

| Question No. | Answer | Question No. | Answer | Question No. | Answer | Question No. | Answer |
|---|---|---|---|---|---|---|---|
| 1 | B | 11 | C | 21 | C | 31 | C |
| 2 | D | 12 | B | 22 | B | 32 | B |
| 3 | D | 13 | A | 23 | B | 33 | C |
| 4 | B | 14 | B | 24 | A | 34 | A. (c) B. (d) |
| 5 | B | 15 | D | 25 | B | 35 | D |
| 6 | D | 16 | C | 26 | B | | |
| 7 | A | 17 | A | 27 | C | | |
| 8 | B | 18 | B | 28 | C | | |
| 9 | C | 19 | B | 29 | D | | |
| 10 | C | 20 | C | 30 | B | | |