

# MATHS

**Q1. Write each of the following products in exponential form:**

1.  $a \times a \times a \times a \times a$  ..... 15 times
2.  $8 \times b \times b \times b \times a \times a \times a \times a$
3.  $5 \times a \times a \times a \times b \times b \times c \times c \times c$
4.  $7 \times a \times a \times a$ ..... 8 times  $\times b \times b \times b \times b$ ..... 5 times
5.  $4 \times a \times a \times a$  .....5 times  $\times b \times b \times b$ ..... 12 times  $\times c \times c \times c$  ..... 15 times


**Q2. Simplify:**

1.  $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$

Ans. \_\_\_\_\_

2.  $\frac{3}{10} + \frac{7}{15} + \frac{3}{5}$

Ans. \_\_\_\_\_

3.  $\frac{5}{8} + \frac{2}{5} + \frac{3}{4}$

Ans. \_\_\_\_\_

4.  $\frac{3}{4} + \frac{7}{16} + \frac{5}{8}$

Ans. \_\_\_\_\_

5.  $4\frac{2}{3} + 3\frac{1}{4} + 7\frac{1}{2}$

Ans. \_\_\_\_\_

**Q3. Write the next five multiples:**

- a** of 9. 45, 54, 63, 72, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,
- b** of 6. 54, 60, 66, 72, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,
- c** of 12. 36, 48, 60, 72, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,
- d** of 15. 45, 60, 75, 90, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

**Q4. Find the half way of the following numbers :**

- |                  |   |                      |                    |   |                      |
|------------------|---|----------------------|--------------------|---|----------------------|
| 1. 50 and 100    | - | <input type="text"/> | 4. 1,000 and 1,500 | - | <input type="text"/> |
| 2. 200 and 300   | - | <input type="text"/> | 5. 40 and 60       | - | <input type="text"/> |
| 3. 500 and 1,000 | - | <input type="text"/> |                    |   |                      |

## ENGLISH

### Q1. Insert the adjective or adverb in the correct place and rewrite the sentences.

1. Namita wept when her cat died. (bitter / bitterly)

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2. Children admire the movement of the elephant. (slow / slowly)

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3. We shall complete all the exercises. (successful / successfully)

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4. My friends go to the gym. (regular / regularly)

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5. It was a escape. (narrow / narrowly)

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### Q2. Match the Column A with Column B to make sensible sentences.

#### Column A

1. Reema bought a book
2. He left the car unlocked
3. The woman struggled for one last breath,
4. It rained heavily
5. A good teacher cares for her students
6. Saying 'yes' comes naturally to winners
7. It has helped us to learn
8. To create something better every moment
9. Neerja Bhanot was
10. I am always

[      ]  
[      ]  
[      ]  
[      ]  
[      ]  
[      ]  
[      ]  
[      ]  
[      ]  
[      ]

#### Column B

- a. so the crops were damaged.
- b. as a parent does.
- c. awarded Ashok Chakra after her death.
- d. whether it is new ideas or new challenges.
- e. glad to meet my uncle.
- f. from the stationery shop.
- g. before she sank back into darkness.
- h. from new experiences.
- i. is our motto.
- j. before going into the garage.

## GENERAL KNOWLEDGE

**Q1. Write name of the activity each of the following is famous for :**

- |                               |       |
|-------------------------------|-------|
| 1. Bangalore (Karnataka)      | _____ |
| 2. Ahmedabad (Gujarat)        | _____ |
| 3. Kolkata (West Bengal)      | _____ |
| 4. Chitranjan (West Bengal)   | _____ |
| 5. Hyderabad (Andhra Pradesh) | _____ |
| 6. Kanpur (Uttar Pradesh)     | _____ |
| 7. Shimla (Himachal Pradesh)  | _____ |
| 8. Noida (Uttar Pradesh)      | _____ |
| 9. Sindri (Maharashtra)       | _____ |
| 10. Rishikesh (Uttaranchal)   | _____ |

### HELP BOX

Fertiliser	Cotton textile	Software development	Jute textile
Locomotives	Iron and steel	Software development	Pharmaceuticals
Shipbuilding	Leather goods	Information Technology	Tourism

**Q2. Match the following minerals with the prime areas of their occurrence :**

- |                         |   |   |                    |
|-------------------------|---|---|--------------------|
| 1. Coal (Metallurgical) | [ | ] | a. Jharkhand       |
| 2. Bauxite              | [ | ] | b. Karnataka       |
| 3. Copper               | [ | ] | c. West Bengal     |
| 4. Gold                 | [ | ] | d. Chhattisgarh    |
| 5. Iron (High grade)    | [ | ] | e. Karnataka       |
|                         | [ | ] | f. Orissa          |
|                         | [ | ] | g. No One Matching |

**Q3. Match the instrumental with the instrument they are famous for :**

- |                          |   |   |                    |
|--------------------------|---|---|--------------------|
| 1. Ustad Zakin Hussain   | [ | ] | a. Sitar           |
| 2. Allah Rakka           | [ | ] | b. Shehnai         |
| 3. Bismillah Khan        | [ | ] | c. Tabla           |
| 4. Hari Prasad Chaurasia | [ | ] | d. Violin          |
| 5. Pt. Ravishankar       | [ | ] | e. Sarod           |
|                          | [ | ] | f. Flute           |
|                          | [ | ] | g. No One Matching |



## APTITUDE

**Q1. Tick (✓) the one which is mis-spelt.**

- |  |                                    |                                      |                                       |                                  |
|--|------------------------------------|--------------------------------------|---------------------------------------|----------------------------------|
| 1. <input type="checkbox"/> enthusiasm | <input type="checkbox"/> glean     | <input type="checkbox"/> nominete    | <input type="checkbox"/> expect       | <input type="checkbox"/> covet   |
| 2. <input type="checkbox"/> pivot      | <input type="checkbox"/> complain  | <input type="checkbox"/> stir        | <input type="checkbox"/> hinge        | <input type="checkbox"/> nead    |
| 3. <input type="checkbox"/> need       | <input type="checkbox"/> cheer     | <input type="checkbox"/> expectasion | <input type="checkbox"/> friendship   | <input type="checkbox"/> charm   |
| 4. <input type="checkbox"/> warrant    | <input type="checkbox"/> intention | <input type="checkbox"/> nominate    | <input type="checkbox"/> interdiktion | <input type="checkbox"/> augur   |
| 5. <input type="checkbox"/> clamber    | <input type="checkbox"/> world     | <input type="checkbox"/> maddle      | <input type="checkbox"/> crossword    | <input type="checkbox"/> pattern |

**Q2. The number in each question below is to be codified in the following code:**

Digit	7	2	1	5	3	9	8	6	4
Code	W	L	M	S	I	N	D	J	B

- |           |                                 |                                 |                                 |                                 |  |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|
| 1. 184632 | <input type="checkbox"/> MDJBSI | <input type="checkbox"/> MDJBIL | <input type="checkbox"/> MDJBWL | <input type="checkbox"/> MDBJIL | <input type="checkbox"/> None of these |
| 2. 879341 | <input type="checkbox"/> DWNIBS | <input type="checkbox"/> DWNBIM | <input type="checkbox"/> DWNIBM | <input type="checkbox"/> NDWBIM | <input type="checkbox"/> None of these |
| 3. 64928  | <input type="checkbox"/> JBNLD  | <input type="checkbox"/> JBLND  | <input type="checkbox"/> BJNLD  | <input type="checkbox"/> DBNLS  | <input type="checkbox"/> None of these |
| 4. 971345 | <input type="checkbox"/> NWMISB | <input type="checkbox"/> WNMIBS | <input type="checkbox"/> NWMIBS | <input type="checkbox"/> NMWIBS | <input type="checkbox"/> None of these |
| 5. 486291 | <input type="checkbox"/> DBJLNM | <input type="checkbox"/> NMJLBD | <input type="checkbox"/> BLJMND | <input type="checkbox"/> BDJLNM | <input type="checkbox"/> None of these |

**Q3. Arrange numbers 1 to 9 in the circles in the way that each straight line having three number adds up to 18. Remember! you can use each number once only.**

