



BRIGGS BRAIN PRESENTS

MTET

Mathematical Thinking Evaluation Test

Class 5

50 Questions

2 Hours

Student Name

Roll No. / Class

Subject

Mathematics, Moral Values & Human Ethics

Total Questions

50

Maximum Marks

50

Time Allowed

2 Hours

SECTION A

Mathematics
(CBSE Class 5 Syllabus)
Questions 1–35

SECTION B

Moral Values, Human Ethics & Mathematics
Questions 36–50

GENERAL INSTRUCTIONS

1. Each question carries 1 mark. There is no negative marking.
2. Read every question carefully before choosing your answer.
3. Each question has only one correct option (A, B, C or D).
4. Use a blue or black pen to mark your answers.
5. Rough work, if any, should be done in the space provided only.

MTET • TEST • SAMPLE PAPER

Section A — Mathematics

CBSE Class 5 Syllabus | Questions 1 – 35

Q1. There are 24 hours in one day and 3,600 seconds in one hour. How many seconds are there in one day?

- (A) 7,000 (B) 864
(C) 72,000 (D) 86,400

Q2. A truck drove 1,027 kilometers in April and 988 kilometers in May. How many more kilometers did the truck travel in April than in May?

- (A) 39 km (B) 139 km
(C) 161 km (D) 1,961 km

Q3. Which of the following represents the number "Nine Lakh Two Thousand Five Hundred and Six" in figures (Indian Place Value System)?

- (A) 92,506 (B) 9,02,506
(C) 9,20,506 (D) 92,00,506

Q4. What is the place value of the underlined digit in 4,28,203?

- (A) 7,000 (B) 70,000
(C) 7,00,000 (D) 700

Q5. Which of the following angles is exactly equal to a 90° angle?

- (A) Acute Angle (B) Obtuse Angle
(C) Right Angle (D) Straight Angle

Q6. If you turn a shape by a half-turn (180°), which of the following English letters looks exactly the same?

- (A) A (B) T
(C) S (D) L

Q7. What type of angle is formed between the hands of a clock when the time is 3:00?

- (A) Acute Angle (B) Obtuse Angle
(C) Right Angle (D) Reflex Angle

Q8. Find the perimeter of a square park whose side is 15 meters.

- (A) 30 m (B) 45 m
(C) 60 m (D) 225 m

Q9. A rectangle has a length of 8 cm and a width of 5 cm. What is its area?

- (A) 13 sq cm (B) 26 sq cm
(C) 40 sq cm (D) 80 sq cm

Q10. What is the formula for finding the volume of a cuboid?

- ☐ (A) Side×Side ☐ (B) Length×Breadth×Height
☐ (C) Side+Side+Side ☐ (D) Length×Breadth

Q11. Which of the following is a 3D (three-dimensional) shape?

- ☐ (A) Rectangle ☐ (B) Circle
☐ (C) Triangle ☐ (D) Sphere

Q12. Which of these is a common factor of both 12 and 18?

- ☐ (A) 5 ☐ (B) 6
☐ (C) 8 ☐ (D) 12

Q13. What are the first three common multiples of 4 and 6?

- ☐ (A) 4, 8, 12 ☐ (B) 6, 12, 18
☐ (C) 12, 24, 36 ☐ (D) 24, 48, 72

Q14. If one-fourth of a pizza is eaten, what fraction of the pizza is left?

- ☐ (A) $1/12$ ☐ (B) $1/4$
☐ (C) $3/4$ ☐ (D) $2/4$

Q15. Convert the mixed fraction $3\frac{2}{5}$ into an improper fraction.

- ☐ (A) $6/5$ ☐ (B) $17/5$
☐ (C) $11/5$ ☐ (D) $15/5$

Q16. Which decimal is equivalent to the fraction $3/10$?

- ☐ (A) 0.03 ☐ (B) 0.3
☐ (C) 3.0 ☐ (D) 0.003

Q17. Convert 4.25 into a fraction in its simplest form.

- ☐ (A) $4\frac{1}{4}$ ☐ (B) $4\frac{2}{5}$
☐ (C) $4\frac{1}{2}$ ☐ (D) $425/100$ (unsimplified)

Q18. In a bar graph, the space between the rectangular bars must always be:

- ☐ (A) Unequal ☐ (B) Increasing
☐ (C) Decreasing ☐ (D) Equal

Q19. If 1 centimeter on a map represents 10 kilometers on the ground, how many kilometers are represented by 7.5 centimeters?

- ☐ (A) 0.75 km ☐ (B) 75 km
☐ (C) 750 km ☐ (D) 7.5 km

Q20. A cube-shaped box has a side length of 3 cm. What is its volume?

- ☐ A 9 cubic cm ☐ B 12 cubic cm
☐ C 27 cubic cm ☐ D 54 cubic cm

Q21. Find the sum of 14.58 and 6.2:

- ☐ A 14.64 ☐ B 20.60
☐ C 20.78 ☐ D 15.20

Q22. A train leaves at 14:30 hours. What time is this on a 12-hour clock?

- ☐ A 2:30 AM ☐ B 12:30 PM
☐ C 2:30 PM ☐ D 4:30 PM

Q23. If a dozen bananas cost ₹60, how much will 5 bananas cost?

- ☐ A ₹12 ☐ B ₹25
☐ C ₹30 ☐ D ₹50

Q24. Which of the following shapes has exactly 4 lines of symmetry?

- ☐ A Equilateral Triangle ☐ B Rectangle
☐ C Square ☐ D Circle

Q25. What is the next number in the pattern: 2, 4, 8, 16, 32, ____?

- ☐ A 40 ☐ B 48
☐ C 64 ☐ D 128

Q26. Which of the following is a prime number?

- ☐ A 1 ☐ B 9
☐ C 15 ☐ D 17

Q27. A vessel contains 2 liters and 250 milliliters of water. How many milliliters of water does it hold in total?

- ☐ A 225 mL ☐ B 2,025 mL
☐ C 2,250 mL ☐ D 22,500 mL

Q28. If the boundary of a square sheet is 40 cm, what is the length of one of its sides?

- ☐ A 5 cm ☐ B 10 cm
☐ C 20 cm ☐ D 160 cm

Q29. Find the value of: $120 \div (4+2) \times 3$

- ☐ A 60 ☐ B 10
☐ C 90 ☐ D 5

Q30. If a shopkeeper buys a book for ₹150 and sells it for ₹180, what is his profit?

- (A) ₹20 (B) ₹30
(C) ₹50 (D) ₹330

Q31. How many $\frac{1}{8}$ parts make up one-half ($\frac{1}{2}$)?

- (A) 2 (B) 4
(C) 8 (D) 16

Q32. The area of a square playground is 64 square meters. What is the length of its side?

- (A) 4 m (B) 8 m
(C) 16 m (D) 32 m

Q33. How many vertices does a standard triangular pyramid (tetrahedron) have?

- (A) 3 (B) 4
(C) 5 (D) 6

Q34. Round off 4,582 to the nearest hundred.

- (A) 4,500 (B) 4,580
(C) 4,600 (D) 5,000

Q35. Which of the following nets can be folded to form a closed cube?

- (A) A net with 5 square faces (B) A net with 6 rectangular faces of different sizes
(C) A net with 6 equal square faces (D) A net with 4 triangular faces

Section B — Moral Values, Human Ethics & Mathematics

Questions 36 – 50

Q36. Rahul found a ₹100 note on the school playground. Instead of keeping it, he immediately gave it to his teacher to find its owner. This action is an example of:

- (A) Greed (B) Honesty
(C) Selfishness (D) Carelessness

Q37. Reema has 20 chocolates. She decides to share $\frac{2}{5}$ of them equally with her friends who do not have any. How many chocolates does she share?

- (A) 4 chocolates (B) 8 chocolates
(C) 10 chocolates (D) 12 chocolates

Q38. A local community planted 450 saplings to protect the environment. If 90% of the saplings survived, how many trees successfully grew? (Caring for Nature)

- (A) 450 trees (B) 405 trees
(C) 350 trees (D) 90 trees

Q39. Amit saves ₹15 every week from his pocket money to donate to an animal shelter. How much money will he save for charity in 10 weeks? (Compassion & Kindness)

- (A) ₹150 (B) ₹100
(C) ₹115 (D) ₹1,500

Q40. In a classroom, there are 4 benches. Some students notice that a new student has no place to sit. They adjust and make space on their bench. This quality is called:

- (A) Ignorance (B) Inclusiveness and Helpfulness
(C) Pride (D) Anger

Q41. A water tap in the school was leaking, wasting 5 liters of water every hour. Rohan noticed this and closed the tap tight to stop the leak. How much water did Rohan save in a day (24 hours)? (Water Conservation)

- (A) 24 liters (B) 50 liters
(C) 100 liters (D) 120 liters

Q42. Sneha promised her mother she would study for 1.5 hours daily. Today, she stayed true to her word and studied for 90 minutes. Did Sneha keep her promise? (Truthfulness & Integrity)

- (A) No, she studied less. (B) Yes, 1.5 hours is exactly equal to 90 minutes.
(C) No, she should have studied for 150 minutes. (D) She only kept half of her promise.

Q43. Four friends went to clean up a local park. They collected 12 kg of plastic waste in total. If they shared the work equally, how much waste did each friend pick up? (Responsibility & Cooperation)

- (A) 2 kg (B) 3 kg
(C) 4 kg (D) 6 kg

Q44. When someone helps us or gives us a gift, saying "Thank You" shows our gratitude. If you write a small "Thank You" note to 3 people who help you daily (like the school bus driver, the helper, and your teacher), how many total thank-you notes do you write in a 5-day school week? (Gratitude)

- (A) 3 notes (B) 8 notes
(C) 15 notes (D) 20 notes

Q45. A fruit vendor accidentally returned ₹20 extra to Kabir. Kabir immediately realized the mistake and returned the ₹20. What moral value did Kabir demonstrate?

- (A) Respect (B) Integrity/Honesty
(C) Cleanliness (D) Bravery

Q46. During a group project, there are 5 team members. To ensure fairness, how should the group decide who speaks during the presentation? (Equality & Fair Play)

- (A) Only the loudest student should speak. (B) Every member should get an equal amount of time to speak.
(C) The teacher should choose only one student. (D) No one should speak.

Q47. Respecting elders is an important moral value. If Ravi spends 30 minutes every evening reading the newspaper to his grandmother, how many hours does he spend doing this in 14 days? (Respect & Care for Elders)

- ☐ A 5 hours
- ☐ B 7 hours
- ☐ C 14 hours
- ☐ D 420 hours

Q48. Which of the following behaviors represents good sportsmanship during a school math quiz competition?

- ☐ A Laughing at other teams when they get a wrong answer.
- ☐ B Congratulating the winning team even if your team lost.
- ☐ C Arguing with the quiz master rudely.
- ☐ D Refusing to play if you are not winning.

Q49. A school organized a food drive. Class 5-A collected 45 kg of grains, and Class 5-B collected 55 kg of grains. All the food was distributed equally among 10 needy families. How many kilograms of grains did each family receive? (Charity & Empathy)

- ☐ A 5 kg
- ☐ B 10 kg
- ☐ C 12 kg
- ☐ D 100 kg

Q50. Why is it important to follow traffic rules and safety signs (like walking on the footpath or using zebra crossings)? (Civic Sense & Responsibility)

- ☐ A To avoid getting late.
- ☐ B To protect our own lives and the safety of others on the road.
- ☐ C Only because police officers might fine us.
- ☐ D Because it is a fun game to play.

Answer Key

MTET – Mathematical Thinking Evaluation Test | Class 5

Section A — Mathematics (Q1–Q35)

Q1	D	Q2	A	Q3	B	Q4	B	Q5	C
Q6	C	Q7	C	Q8	C	Q9	C	Q10	B
Q11	D	Q12	B	Q13	C	Q14	C	Q15	B
Q16	B	Q17	A	Q18	D	Q19	B	Q20	C
Q21	C	Q22	C	Q23	B	Q24	C	Q25	C
Q26	D	Q27	C	Q28	B	Q29	A	Q30	B
Q31	B	Q32	B	Q33	B	Q34	C	Q35	C

Section B — Moral Values, Human Ethics & Mathematics (Q36–Q50)

Q36	B	Q37	B	Q38	B	Q39	A	Q40	B
Q41	D	Q42	B	Q43	B	Q44	C	Q45	B
Q46	B	Q47	B	Q48	B	Q49	B	Q50	B