

## SCHOOL LEVEL EXAM (2025 – 2026)

 <p><b>MATHS MARATHON</b> Competition For Excellence</p>	<p><b>CLASS</b> <b>7</b></p>
<p><b>Total Questions : 100      Total Marks : 100      Time : 80 Minutes</b></p>	

### INSTRUCTIONS TO THE STUDENT'S

1. Please do not open this question paper unless you are instructed.
- 2. Don't write anything on question paper, you can carry blank page for rough calculations**
3. Additional 5 minutes will be given to the candidates for filling up the student's details before the start of the competition.
4. The paper consists of 5 different chapters of the textbook.
5. All questions are compulsory and consist of equal marks.
6. Each question is carrying 1 mark; there is no negative marking.
7. There is only one correct answer, hence mark one answer only.
- 8. Darken the circle with dark pencil or blue/black ball pen only.**
- 9. Return the answer sheet along with the question paper to the supervisor at the end of the exam.**

Name - \_\_\_\_\_

SCHOOL - \_\_\_\_\_

ROLL NO - \_\_\_\_\_ CLASS - \_\_\_\_\_

**SECTION 1 - MULTIPLICATION AND DIVISION OF INTEGERS**

1. What is the product of  $(-5)$  and  $7$ ?  
A) 35                                      B)  $-35$                                       C) 12
2. If you have 4 groups of  $(-7)$  pencils each, how many pencils do you have in total?  
A) 28                                      B)  $-14$                                       C)  $-28$
3. If you multiply 12 by  $(-4)$ , what is the product?  
A)  $-48$                                       B) 48                                      C)  $-12$
4. What is the result of multiplying 11 by  $(-2)$ ?  
A)  $-9$                                       B) 22                                      C)  $-22$
5. If you multiply  $-7$  by  $(-8)$ , what is the product?  
A) 58                                      B)  $-56$                                       C) 56
6. What is the product of  $(-9)$  and  $5$ ?  
A)  $-45$                                       B) 45                                      C)  $-12$
7. What is the result of multiplying  $(-10)$  by  $(-6)$ ?  
A)  $-16$                                       B) 60                                      C)  $-60$
8. If you have 7 groups of  $(-5)$  marbles each, how many marbles do you have in total?  
A)  $-35$                                       B) 35                                      C)  $-12$
9. If you have 9 groups of  $(-4)$  pencils each, how many pencils do you have in total?  
A)  $-36$                                       B) 36                                      C)  $-9$
10. If you multiply 12 by  $(-7)$ , what is the product?  
A) 84                                      B)  $-84$                                       C) 13
11. What is the quotient of 49 divided by  $(-7)$ ?  
A) 7                                      B)  $-7$                                       C) 6
12. How many times does  $(-7)$  go into  $(-49)$ ?  
A) 7                                      B)  $-7$                                       C) 6
13. If you have  $(-35)$  divided into 5 equal groups, how many are in each group?  
A)  $-5$                                       B) 7                                      C)  $-7$
14. What is the result of dividing  $(-72)$  by  $(-8)$ ?  
A) 8                                      B)  $-9$                                       C) 9

15. How many times does (-9) go into (-81)?  
A) 9                                      B) -9                                      C) -8
16. If you divide 100 by (-20), what is the quotient?  
A) -5                                      B) 5                                      C) -6
17. What is the quotient of (-84) divided by (-12)?  
A) -7                                      B) 7                                      C) 6
18. If you divide 81 by (-9), what is the quotient?  
A) -9                                      B) 9                                      C) -8
19. What is the result of dividing 144 by (-12)?  
A) 12                                      B) -12                                      C) -13
20. If you divide (75) by -5, what is the quotient?  
A) -15                                      B) 15                                      C) -14

**SECTION 2 - HCF – LCM**

21. How many prime numbers are there between 50 and 60?  
A) 1                                      B) 2                                      C) 3
22. Which of the following pairs of numbers is not co-prime?  
A) (16, 25)                                      B) (21, 28)                                      C) (22, 35)
23. How many twin prime pairs are there between 10 and 20?  
A) 0                                      B) 1                                      C) 2
24. Which of the following pairs of numbers is not an example of twin prime numbers?  
A) (41, 43)                                      B) (43, 45)                                      C) (71, 73)
25. Find the HCF of 15 and 20.  
A) 5                                      B) 10                                      C) 15
26. What is the HCF of 63 and 77?  
A) 14                                      B) 9                                      C) 7
27. Three pieces of timber are of lengths 42 m, 49 m, and 63 m. The greatest length of a piece that can measure all the pieces exactly is:  
A) 7 m                                      B) 14 m                                      C) 21 m
28. Find the HCF of 36 and 84.  
A) 6                                      B) 12                                      C) 18

29. What is the HCF of 18, 24, and 30?

A) 3

B) 6

C) 12

30. A sweet maker has 120 ladoos and 180 barfis. He wants to pack them in equal packets without mixing them. What is the maximum number of packets he can make?

A) 20

B) 30

C) 60

31. A teacher has 48 boys and 60 girls. She wants to form as many groups as possible with equal number of boys and equal number of girls in each group. How many groups can she form?

A) 6

B) 12

C) 24

32. A teacher wants to arrange 30 boys and 45 girls into rows so that each row has the same number of students and all rows are full. What is the least number of students in each row?

A) 90

B) 180

C) 270

33. What is the LCM of 18 and 24?

A) 36

B) 48

C) 72

34. Determine the LCM of 12 and 18.

A) 18

B) 24

C) 36

35. Find the LCM of 32 and 40.

A) 80

B) 160

C) 320

36. Calculate the LCM of 8, 12, and 15.

A) 48

B) 60

C) 120

37. Calculate the LCM of 16, 20, and 25.

A) 100

B) 400

C) 200

38. Calculate the LCM of 28, 35, and 42.

A) 140

B) 210

C) 420

39. Three sprinklers spray water at intervals of 40 sec, 50 sec, and 60 sec. If they start together, after how long will they spray together again?

A) 200 sec

B) 300 sec

C) 600 sec

40. Two ships blow their horns at intervals of 28 minutes and 35 minutes. If they blow together at 5:00 p.m., at what time will they blow together again?

A) 6:45 p.m.

B) 7:20 p.m.

C) 7:35 p.m.

### SECTION 3 - ANGLES AND PAIRS OF ANGLES

41. What is the name of an angle that measures less than 90 degrees?  
A) Obtuse angle                      B) Right angle                      C) Acute angle
42. Two angles whose measures add up to 180 degrees are called:  
A) Supplementary angles    B) Complementary angles    C) Vertical angles
43. Two angles whose measures add up to 90 degrees are called:  
A) Complementary angles    B) Supplementary angles    C) Adjacent angles
44. If one angle measures 30 degrees, what is the measure of its complement?  
A) 30 degrees                      B) 60 degrees                      C) 90 degrees
45. If the measure of one angle is 75 degrees, what is the measure of its complement?  
A) 105 degrees                      B) 75 degrees                      C) 15 degrees
46. What are the supplementary angles if one angle measures 45 degrees?  
A) 135 degrees                      B) 90 degrees                      C) 180 degrees
47. If one of the exterior angles of a triangle measures 110 degrees, what is the measure of its adjacent interior angle?  
A) 70 degrees                      B) 90 degrees                      C) 110 degrees
48. If two angles of a triangle measure 30 degrees and 60 degrees, what is the measure of the third angle?  
A) 60 degrees                      B) 90 degrees                      C) 120 degrees
49. When two lines intersect each other. If one angle measures 110 degrees, what is the measure of its vertically opposite angle?  
A) 110 degrees                      B) 90 degrees                      C) 70 degrees
50. In opposite rays, the distance between the endpoints is:  
A) Fixed                              B) Infinite                              C) Zero
51. Opposite rays extend indefinitely in:  
A) Only one direction              B) Two opposite directions    C) Multiple directions
52. Which of the following angles is an acute angle?  
A) 100 degrees                      B) 120 degrees                      C) 45 degrees
53. Which of the following angles is an obtuse angle?  
A) 60 degrees                      B) 120 degrees                      C) 90 degrees
54. If one angle is 120 degrees, what is the measure of its supplementary angle?  
A) 60 degrees                      B) 120 degrees                      C) 240 degrees

55. The sum of the measures of an exterior angle and its adjacent interior angle of a triangle is always equal to:

- A) 90 degrees                      B) 180 degrees                      C) 360 degrees

56. If one angle is 60 degrees, what is the measure of its complementary angle?

- A) 30 degrees                      B) 60 degrees                      C) 120 degrees

57. If one angle is 120 degrees, what is the measure of its supplementary angle?

- A) 240 degrees                      B) 120 degrees                      C) 60 degrees

58. Vertically opposite angles are formed when:

- A) Two lines are parallel      B) Two lines intersect              C) Two lines are perpendicular

59. Vertically opposite angles are always located:

- A) Next to each other          B) On the same side                  C) Across from each other

60. In a triangle, if one angle measures 60 degrees and another measures 70 degrees, what is the measure of the third angle?

- A) 40 degrees                      B) 50 degrees                      C) 110 degrees

**SECTION 4 - OPERATIONS ON RATIONAL NUMBERS**

61. What is the sum of  $\frac{2}{5}$  and  $\frac{3}{10}$ ?

- A)  $\frac{1}{2}$                                   B)  $\frac{1}{5}$                                   C)  $\frac{7}{10}$

62. If you add  $\frac{-3}{8}$  and  $\frac{5}{8}$ , what is the result?

- A)  $\frac{-1}{4}$                                   B)  $\frac{1}{4}$                                   C)  $\frac{-8}{3}$

63. If you add  $\frac{3}{5}$  and  $\frac{-2}{5}$ , what is the result?

- A) 1                                      B)  $\frac{1}{5}$                                   C)  $\frac{1}{10}$

64. If you subtract  $\frac{-2}{3}$  from  $\frac{-1}{4}$ , what is the difference?

- A)  $\frac{-5}{12}$                                   B)  $\frac{-1}{12}$                                   C)  $\frac{5}{12}$

65. What is the difference between  $\frac{-3}{8}$  and  $\frac{5}{8}$ ?

- A) -1                                      B)  $\frac{1}{4}$                                   C)  $\frac{-8}{3}$

66. What is the result of subtracting  $\frac{-3}{4}$  from  $\frac{1}{4}$ ?

- A) -1                                      B)  $\frac{1}{2}$                                   C) 1

67. If you multiply  $\frac{-2}{3}$  by  $\frac{-1}{4}$ , what is the product?

A)  $\frac{1}{12}$

B)  $\frac{-1}{6}$

C)  $\frac{1}{6}$

68. What is the product of  $\frac{-2}{5}$  and  $\frac{7}{10}$ ?

A)  $\frac{-7}{25}$

B)  $\frac{7}{25}$

C)  $\frac{-14}{25}$

69. What is the product of  $\frac{-3}{4}$  and  $\frac{2}{5}$ ?

A)  $\frac{-3}{13}$

B)  $\frac{3}{10}$

C)  $\frac{-3}{10}$

70. What is the product of  $\frac{-3}{7}$  and  $\frac{-2}{3}$ ?

A)  $\frac{2}{7}$

B)  $\frac{-6}{21}$

C)  $\frac{-6}{7}$

71. What is the quotient of  $\frac{-4}{7}$  divided by  $\frac{5}{7}$ ?

A)  $\frac{-4}{35}$

B)  $\frac{-4}{5}$

C) -1

72. What is the result of dividing  $\frac{-3}{4}$  by  $\frac{2}{5}$ ?

A)  $\frac{-15}{8}$

B)  $\frac{-3}{2}$

C)  $\frac{15}{8}$

73. Convert  $\frac{-1}{2}$  to a decimal.

A) -0.5

B) 0.5

C) -1.0

74. What is the decimal equivalent of  $\frac{1}{3}$ ?

A) 0.34

B) 0.36

C) 0.333

75. What is the decimal representation of  $\frac{2}{7}$ ?

A) 0.714

B) 0.285

C) 0.142

76. What is the decimal equivalent of  $\frac{4}{11}$ ?

A) 0.364

B) 0.363

C) 0.365

77. Simplify the expression:  $(-15) - (-7) + 4 - (-2)$ .

A) -22

B) -26

C) -2

78. Simplify the expression:  $((-9 - 3) \times (6 / 2)) + ((-5) - (4 \times 2)) + (3 - 1)$ .

A) -47

B) -25

C) -19

79. Simplify the expression:  $(10 / 2) - (4 + 1) \times (-2) + (-3 - 1)$ .

A) -16

B) 11

C) -8

80. Simplify the expression:  $((-15) / 3) + (8 - 2) \times (-2) - ((4 + 2) / 3)$ .

A) -16

B) -19

C) -20

**SECTION 5 - INDICES**

81. What is  $(-6)^4 \times (-6)^3$  equal to?

A)  $(-6)^7$

B)  $(-6)^{12}$

C)  $(-6)^{24}$

82. What is the square root of 64?

A) 12

B) 10

C) 8

83. Simplify  $(-2)^2 \times (-2)^3$ .

A)  $(-2)^5$

B)  $(-2)^6$

C)  $(-2)^7$

84. Simplify  $9^2 \times 9^3$ .

A)  $9^5$

B)  $9^6$

C)  $9^2$

85. What is  $10^3$  ?

A) 100

B) 1000

C) 10000

86. Simplify  $\frac{2^5}{2^2}$ .

A)  $2^3$

B)  $2^7$

C)  $2^2$

87. What is  $(-3)^4 \times (-3)^4$  equal to?

A)  $(-3)^{12}$

B)  $(-3)^8$

C)  $(-3)^{21}$

88. Simplify  $\frac{20^7}{20^3}$ .

A)  $20^3$

B)  $20^5$

C)  $20^4$

89. Calculate  $(2 \times (-3))^3 \times (2 \times (-3))^4$ .

A)  $(-6)^7$

B)  $(-6)^{12}$

C)  $(-6)^{14}$

90. What is  $\frac{21^5}{21^2}$  ?

A)  $21^7$

B)  $21^3$

C)  $21^2$

91. Simplify  $(-7)^2 \times (-7)^3$ .

A)  $(-7)^5$

B)  $(-7)^6$

C)  $(-7)^{12}$

92. Evaluate  $(-5)^4 \div (-5)^2$ .

A)  $(-5)^6$

B)  $(-5)^{10}$

C)  $(-5)^2$

93. Simplify  $3^5 \times 3^2$ .

A)  $3^{10}$

B)  $3^7$

C)  $3^5$

94. What is  $\frac{12^5}{12^3}$  ?

A)  $12^2$

B)  $12^8$

C)  $12^3$

95. Simplify  $9^1 \times 9^2$ .

A)  $9^2$

B)  $9^1$

C)  $9^3$

96. Calculate the square root of 81.

A) 27

B) 18

C) 9

97. What is the square root of 144 ?

A) 8

B) 12

C) 16

98. Determine the square root of 100.

A) 20

B) 15

C) 10

99. Evaluate  $\frac{10^4}{10^2}$ .

A)  $10^2$

B)  $10^6$

C)  $10^4$

100. What is the square of 32?

A) 1024

B) 6440

C) 2156

# ANSWER

Q.No	ANS	Q.No	ANS	Q.No	ANS	Q.No	ANS	Q.No	ANS
1	B	21	B	41	C	61	C	81	A
2	C	22	B	42	A	62	B	82	C
3	A	23	C	43	A	63	B	83	A
4	C	24	B	44	B	64	C	84	A
5	C	25	A	45	C	65	A	85	B
6	A	26	C	46	A	66	C	86	A
7	B	27	A	47	A	67	C	87	B
8	A	28	B	48	B	68	A	88	C
9	A	29	B	49	A	69	C	89	A
10	B	30	C	50	C	70	A	90	B
11	B	31	B	51	B	71	B	91	A
12	A	32	A	52	C	72	A	92	C
13	C	33	C	53	B	73	A	93	B
14	C	34	C	54	A	74	C	94	A
15	A	35	B	55	B	75	B	95	C
16	A	36	C	56	A	76	B	96	C
17	B	37	B	57	C	77	C	97	B
18	A	38	C	58	B	78	A	98	C
19	B	39	C	59	C	79	B	99	A
20	A	40	B	60	B	80	B	100	A