



## CREST Mental Maths Olympiad (CMMO)

### Previous Year Paper

# Class 3

**Time Allowed: 60 minutes**

**Maximum Marks: 100**

- There are a total of **100 questions** in this booklet comprising **2 sections** namely the **Basique and Avance** consisting of **80 questions (1 mark each) & 20 questions (2 marks each)**, respectively.
- There is **only ONE correct option** to a given question.
- No candidate is allowed to carry any textual material, printed or written, bits of paper, any electronic device, etc. inside the examination hall.
- The use of unfair means may result in the cancellation of the exam. Any such instances may be reported at **+91-98182-94134** or **info@crestolympiads.com**

**DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO**

**FILL IN THE DETAILS**

Candidate Name: \_\_\_\_\_

Class: \_\_\_\_\_ Section: \_\_\_\_\_

CREST ID: \_\_\_\_\_

## Basique (Each Question is 1 Mark)

1. Which of the following shows the expanded form of the number 982?

- a. **90 + 80 + 2**                      b. **200 + 80 + 9**  
c. **900 + 80 + 2**                      d. **800 + 90 + 9**

2. What is the number name for 606?

- a. **Six hundred six**                      b. **Six hundred sixteen**  
c. **Six hundred sixty**                      d. **Six hundred sixty six**

3. Fill in the blank:

**764 = \_\_\_ hundreds, \_\_\_ tens, \_\_\_ ones**

- a. **7, 6, 14**                                      b. **6, 6, 14**  
c. **6, 17, 4**                                      d. **7, 6, 4**

4. Which of the following represents the correct descending order of numbers?

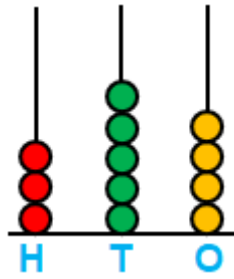
- a. **729 > 715 > 632 > 425**                      b. **729 > 632 > 715 > 425**  
c. **729 < 715 < 632 < 425**                      d. **729 < 632 < 715 < 425**

5. Fill in the blank:

**120 \_\_\_ One hundreds, twenty ones**

- a. **>**    b. **<**  
c. **=**    d. **Both B and C**

6. What is the number shown on the abacus?



a. **345**

b. **354**

c. **353**

d. **543**

7. Fill in the blank:

**22, 29, \_\_\_\_, 43, 50**

a. **33**

b. **36**

c. **39**

d. **41**

8. What is the sum of the place values of 7 in the numbers 708, 437 and 76?

a. **77**

b. **707**

c. **770**

d. **777**

9. Fill in the blank:

**1, 4, 9, \_\_\_\_, 25**

a. **13**

b. **16**

c. **18**

d. **21**

10. Fill in the blank:

**A2, C4, E6, \_\_, I10**

a. **D8**

b. **F7**

c. **G8**

d. **G9**

11. What is the smallest three-digit number that can be formed using the digits 2,7 and 9 without repeating the digits?

a. **279**

b. **297**

c. **792**

d. **729**

12. Fill in the blank:

**542 = 500 + \_\_\_\_ + 2**

a. **30**

b. **40**

c. **42**

d. **50**

13. What is 100 more than 456?

a. **356**

b. **466**

c. **546**

d. **556**

14. How much more is 758 than 539?

a. **219**

b. **319**

c. **329**

d. **419**

15. Fill in the blank:

$$316 = 516 - \underline{\quad}$$

a. **100**

b. **110**

c. **180**

d. **200**

16. Find the value of X:

$$\begin{array}{r} 71X \\ - 259 \\ \hline 451 \end{array}$$

a. **0**

b. **1**

c. **2**

d. **3**

17. What is X + Y?

$$\begin{array}{r} 3X4 \\ + 127 \\ \hline 47Y \end{array}$$

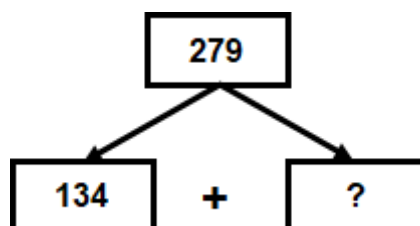
a. **3**

b. **4**

c. **5**

d. **6**

18. What will come in place of the question mark (?) in the number bond?



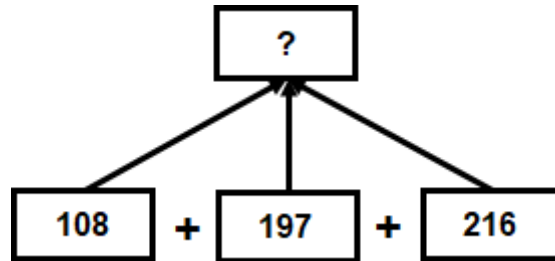
a. **135**

b. **145**

c. **189**

d. **413**

19. What will come in place of the question mark (?) in the number bond?



a. **439**

b. **469**

c. **521**

d. **541**

20. Fill in the blank:

$$\underline{\quad} \times 2 = 3 \times 8$$

a. **4**

b. **6**

c. **12**

d. **16**

21. What is the product of 19 and 17?

a. **263**

b. **285**

c. **323**

d. **372**

22. How many groups of 3 can be formed from the given flowers?



a. **2**

b. **3**

c. **4**

d. **5**

23. How much is 17 times 11?

a. **167**

b. **177**

c. **187**

d. **197**

24. If there are 36 apples, then how many dozens of apples are there?

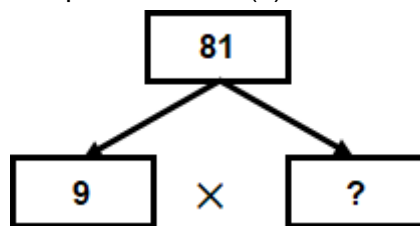
a. **3**

b. **4**

c. **5**

d. **6**

25. What will come in place of the question mark (??)



a. **5**

b. **7**

c. **8**

d. **9**



30. Which of the following fractions is correctly arranged in ascending order?

a.  $\frac{2}{7}, \frac{6}{7}, \frac{5}{7}, \frac{1}{7}$

b.  $\frac{1}{7}, \frac{2}{7}, \frac{5}{7}, \frac{6}{7}$

c.  $\frac{1}{7}, \frac{6}{7}, \frac{5}{7}, \frac{2}{7}$

d.  $\frac{1}{7}, \frac{5}{7}, \frac{6}{7}, \frac{2}{7}$

31. Which of the following statements is correct?

a.  $\frac{2}{7} > \frac{5}{7}$

b.  $\frac{3}{7} > \frac{8}{7}$

c.  $\frac{3}{7} > \frac{1}{7}$

d.  $\frac{1}{7} > \frac{5}{7}$

32. What is the resulting fraction?



a.  $\frac{4}{5}$

b.  $\frac{3}{5}$

c.  $\frac{2}{5}$

d.  $1$

33. What is the resulting fraction?

$$\frac{7}{9} - \frac{4}{9}$$

a.  $\frac{1}{3}$

c.  $\frac{4}{9}$

b.  $\frac{2}{9}$

d.  $\frac{5}{9}$

34. How many metres make 5 km?

a. **50**

b. **500**

c. **5000**

d. **50000**

35. Fill in the blank:

$$24 \text{ m } 56 \text{ cm} = \underline{\quad} \text{ cm}$$

a. **80**

b. **296**

c. **2306**

d. **2456**

36. Convert 21 km into cm.

a. **2100 cm**

b. **21000 cm**

c. **210000 cm**

d. **2100000 cm**

37. How many grams make 12 kg?

a. **120**

b. **1200**

c. **12000**

d. **120000**

38. Fill in the blank:

$$7 \text{ kg } 20 \text{ g} = \underline{\hspace{2cm}} \text{ g}$$

- a. **720**
- b. **7020**
- c. **7200**
- d. **7220**

39. Which of the following shows 10000 ml?

- a. **1 litre**
- b. **10 litres**
- c. **100 litres**
- d. **1000 litres**

40. How many millilitres make 13 litres?

- a. **30 ml**
- b. **1300 ml**
- c. **13000 ml**
- d. **130000 ml**

41. Subtract 17 m 28 cm from 28 m 16 cm.

- a. **10 m 88 cm**
- b. **11 m 88 cm**
- c. **11 m 92 cm**
- d. **12 m 88 cm**

42. Fill in the blank:

$$21 \text{ m } 13 \text{ cm} + 32 \text{ m } 17 \text{ cm} = \underline{\hspace{2cm}} \text{ m } \underline{\hspace{2cm}} \text{ cm}$$

- a. **52, 70**
- b. **53, 30**
- c. **54, 60**
- d. **55, 30**

43. Bag A and bag B weigh 25 kg 225 g and 17 kg 875 g respectively. How much more does bag A weigh than bag B?

a. **7 kg 350 g**

b. **7 kg 480 g**

c. **8 kg 350 g**

d. **8 kg 480 g**

44. Which of the following represents the correct descending order of numbers?

**2 hrs 15 min = \_\_\_ min**

a. **105**

b. **135**

c. **150**

d. **165**

45. How many days are there in 5 weeks?

a. **2 days**

b. **12 days**

c. **21 days**

d. **35 days**

46. The cost of an eraser is 30 cents. How much money will be paid for buying 5 erasers?

a. **\$1.20**

b. **\$1.30**

c. **\$1.50**

d. **\$1.75**

47. The cost of a notepad is \$7, and the cost of a diary is \$12. Tom pays \$20 at the counter to buy a notepad and a diary. How much change will he receive?

a. **\$1**

b. **\$2**

c. **\$3**

d. **\$4**

48. Sara does piano practice for an hour. If she begins her practice at the time shown on the clock, when does her practice end?



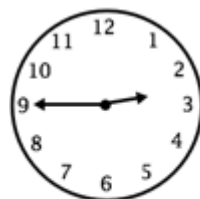
- a. **6:30 pm**                      b. **7:30 pm**  
c. **8:00 pm**                      d. **8:30 pm**

49. What is the time shown on the clock?



- a. **6:10**                              b. **6:50**  
c. **7:10**                              d. **8:10**

50. What is the elapsed time from the start time?



**Start**



**Stop**

- a. **20 minutes**                      b. **35 minutes**  
c. **40 minutes**                      d. **50 minutes**

51. Billy purchases a burger worth \$7.50 and a packet of french fries worth \$5.80. How much money will he pay to the shopkeeper?

a. **\$12.80**

b. **\$13.10**

c. **\$13.30**

d. **\$13.70**

52. Which of the following statements is correct?

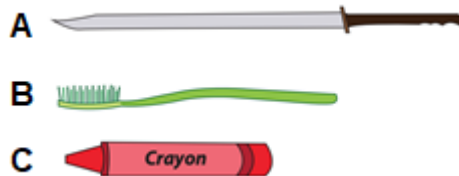
a. **200 g > 1 kg**

b. **2000 g > 1 kg**

c. **2000 g = 1 kg**

d. Both b and c

53. Which of the following statements is correct based on the lengths of the given objects?



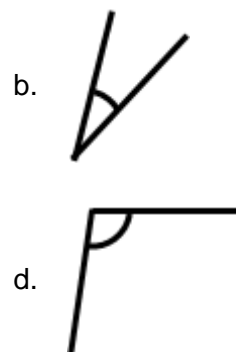
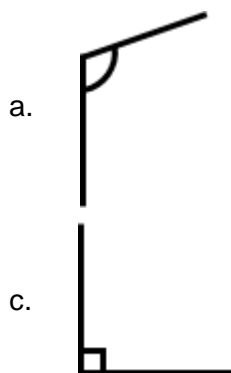
a. **A > C**

b. **B < C**

c. **A = C**

d. **A < B**

54. Which of the following is an acute angle?

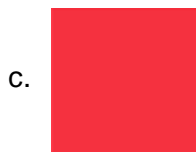


55. What type of angle is shown in the picture?



- a. **Acute angle**                      b. **Right angle**  
c. **Obtuse angle**                    d. **Straight angle**

56. Which of the following is called a kite?



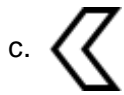
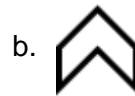
57. How many faces does a cuboid have?

- a. **4**                                      b. **6**  
c. **8**                                      d. **12**

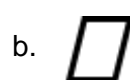
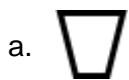
58. How many vertices are there in a triangular prism?

- a. **3**                                      b. **4**  
c. **5**                                      d. **6**

59. What will be the next shape in the pattern?

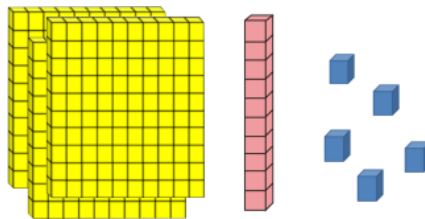


60. What will come in place of question mark in the given pattern?



### Avance (Each Question is 2 Marks)

61. What is the product of 19 and 17?



a. **215**

b. **315**

c. **415**

d. **425**

62. Fill in the blank:

**181, \_\_\_\_\_, \_\_\_\_\_, 220, 233**

a. **189, 201**

b. **191, 207**

c. **191, 204**

d. **194, 207**

63. Fill in the blank:

Z100, X90, \_\_\_\_\_, T70

a. V80

b. U80

c. W80

d. W60

64. Find the missing number in the puzzle.

		+	
4	1	5	
5	2	7	
9	3	?	

a. 9

b. 10

c. 11

d. 12

65. A shopkeeper sells 67 eggs on Monday, 74 eggs on Tuesday and 59 eggs on Wednesday. How many eggs did he sell altogether?

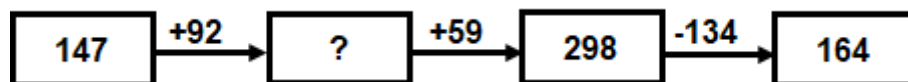
a. 198

b. 200

c. 298

d. 300

66. What is the missing number in the number bond?



a. 179

b. 199

c. 221

d. 239

67. How many pairs of socks can be formed from 14 socks?

a. **6**

b. **7**

c. **8**

d. **9**

68. How many groups of 8 marbles can be formed from 56 marbles?

a. **3**

b. **5**

c. **7**

d. **8**

69. Which of the following is a multiple of 9?

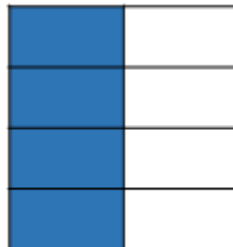
a. **64**

b. **94**

c. **117**

d. **128**

70. What fraction of the figure is shaded?



a.  $\frac{1}{2}$

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

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

d.  $\frac{1}{4}$

71. Out of 8 slices of pizza, Alex ate 3 and left the remaining for his brother. What fraction of pizza was left for the brother?

a.  $\frac{1}{8}$

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

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

d.  $\frac{7}{8}$

72. What is the resulting fraction?

$$41084 \text{ g} = \underline{\quad} \text{ kg } \underline{\quad} \text{ g}$$

a. 41, 84

b. 41, 804

c. 41, 840

d. 42, 84

73. Fill in the blank:

$$70809 \text{ ml} = \underline{\quad} \text{ l } \underline{\quad} \text{ ml}$$

a. 7, 890

b. 70, 89

c. 70, 809

d. 70, 890

74. A jar is filled with juice. After pouring 150 ml juice in 8 glasses equally, there is still 200 ml of juice left in the jar. How much juice was there in the jar initially?

a. 1200 ml

b. 1400 ml

c. 1600 ml

d. 2200 ml

75. A bag of flour weighs 200 g. If a chef needs 1 kg of flour to bake a cake, how many such bags of flour would he need?

a. **2**

b. **3**

c. **4**

d. **5**

76. How many hours in 180 minutes?

a. **1**

b. **2**

c. **3**

d. **4**

77. Kelly makes an origami bird in 3 minutes. How many birds she would have made in 27 minutes?

a. **9**

b. **10**

c. **11**

d. **12**

78. I am a 2D shape with no sides and no corners. Who am I?

a. **Square**

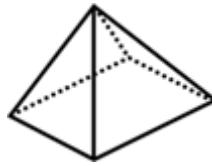
b. **Triangle**

c. **Circle**

d. **Kite**

79. Fill in the blank:

The given figure has \_\_\_ vertices, \_\_\_ edges and \_\_\_ faces.



a. **4, 4, 4**

b. **4, 6, 4**

c. **5, 8, 5**

d. **5, 8, 8**

80. Fill in the blank:



a. △○

b. △△

c. ○△

d. ○○

### Answer Key

1.	c	2.	a	3.	d	4.	a	5.	c	6.	b	7.	b
8.	d	9.	b	10.	c	11.	a	12.	b	13.	d	14.	a
15.	d	16.	a	17.	c	18.	b	19.	c	20.	c	21.	c
22.	b	23.	c	24.	a	25.	d	26.	c	27.	a	28.	c
29.	d	30.	b	31.	c	32.	a	33.	a	34.	c	35.	d
36.	d	37.	c	38.	b	39.	b	40.	c	41.	a	42.	b
43.	a	44.	b	45.	d	46.	c	47.	a	48.	b	49.	c
50.	b	51.	c	52.	b	53.	a	54.	b	55.	c	56.	d
57.	b	58.	d	59.	a	60.	c	61.	b	62.	d	63.	a
64.	d	65.	b	66.	d	67.	b	68.	c	69.	c	70.	a
71.	c	72.	a	73.	c	74.	b	75.	d	76.	c	77.	a
78.	c	79.	c	80.	d								