

CREST Mental Maths Olympiad (CMMO)

Previous Year Paper

Class 3

Time Allowed: 1 hour Maximum Marks: 300

- Additional 10 minutes will be allotted to fill up information on the OMR Sheet, before the start of the exam.
- Fill in all the mandatory fields clearly on the OMR Sheet.
- There are a total of **80 questions** in this booklet comprising **2 sections** namely the **Basique and Avance** consisting of **60 questions** (**3 mark each**) & **20 questions** (**6 marks each**), respectively.
- There's a **negative marking** of 1/3rd marks for every wrong answer. The use of a calculator is not permitted.
- There is **only ONE correct option** to a given question.
- Use **HB Pencil or Blue / Black ball point pen only** for marking the correct choice of answers on the OMR Sheet.
- Rough work is to be done in the space provided in the test booklet. An extra plain sheet may be provided by the school for the rough work.
- The OMR Sheet is to be handed over to the invigilator at the end of the exam.
- 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 3 Marks)

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

2. What is the number name for 606?

Fill in the blank:

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

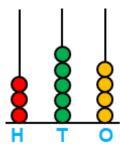
a.
$$729 > 715 > 632 > 425$$
 b. $729 > 632 > 715 > 425$

b.
$$729 > 632 > 715 > 425$$

c.
$$729 < 715 < 632 < 425$$
 d. $729 < 632 < 715 < 425$

5. Fill in the blank:

6. What is the number shown on the abacus?



a. 345

b. 354

c. **353**

d. **543**

7. Fill in the blank:

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:

a. **13**

b. **16**

c. 18

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

a. 100

b. 110

c. 180

d. 200

16. Find the value of X:

a. **(**)

b. 1

c. 2

d. 3

17. What is X + Y?

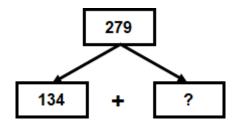
a. **3**

b. 4

c. **5**

d. 6

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



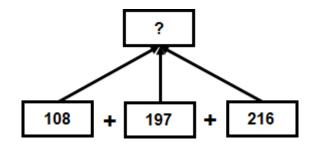
a. 135

b. 145

c. 189

d. **413**

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



a. 439

ь. 469

c. 521

d. 541

20. Fill in the blank:

a. 4

b. **6**

c. **12**

d. **16**

21. What is the product of 19 and 17?

a. **263**

b. **285**

c. **323**

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?

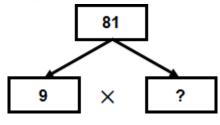
a. 3

b. 🖊

c. 5

d. 6

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

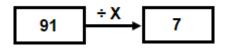


a. **5**

b. 7

с. 🚪

26. What will come in place of X?

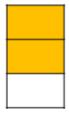


d.

27. Which of the following correctly shows all the factors of 12?

- a. 1, 2, 3, 4, 6, 12
- b. 1, 2, 4, 8, 12
- c. 1, 2, 3, 4, 6, 8, 12 d. 1, 2, 3, 4, 12

28. What fraction of the figure is shaded?



a.

b.

c.

d.

29. Which of the following figures is one-fifth shaded?

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

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

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

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

31. Which of the following statements is correct?

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

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

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

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

32. What is the resulting fraction?



33. What is the resulting fraction?

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

- a. $\frac{1}{3}$
- c. **4**

- b. $\frac{2}{9}$
- d. __
- 34. How many metres make 5 km?
 - a. **50**
 - c. 5000

- b. 500
- d. 50000

a. **80**

b. **296**

c. **2306**

d. 2456

- 36. Convert 21 km into cm.
 - a 2100 cm

- ь. **21000 ст**
- a 210000 cm
- ^d 2100000 cm
- 37. How many grams make 12 kg?
 - a. 120

b. 1200

c. 12000

$$7 \text{ kg } 20 \text{ g} = \underline{\hspace{1cm}} g$$

a. 720

ь. **7020**

c. 7200

- d. 7220
- 39. Which of the following shows 10000 ml?
 - a. 1 litre

- 10 litres
- 100 litres
- **d.** 1000 litres
- 40. How many millilitres make 13 litres?
 - a. 30 ml

ь 1300 ml

□ 13000 ml

- d 130000 ml
- 41. Subtract 17 m 28 cm from 28 m 16 cm.
 - a 10 m 88 cm

- a 11 m 92 cm a 12 m 88 cm
- **42.** Fill in the blank:

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
- ∘ 8 kg 350 g
- ս 8 kg 480 g
- 44. Which of the following represents the correct descending order of numbers?

a. 105

b. 135

c. **150**

- d. 165
- 45. How many days are there in 5 weeks?
 - a. 2 days

ь 12 days

• 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

\$1.50

- a \$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

ь **7:30 рт**

。 8:00 pm

- a. 8:30 pm
- 49. What is the time shown on the clock?

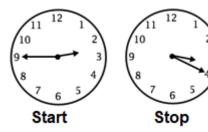


a. 6:10

b. 6:50

c. 7:10

- 8:10
- 50. What is the elapsed time from the start time?



- a 20 minutes b 35 minutes

- 40 minutes
 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

ь **\$13.10**

\$13.30

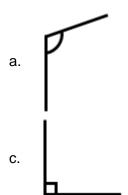
- **4** \$13.70
- **52.** Which of the following statements is correct?

 - 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?



- Crayon

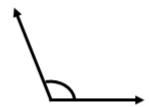
- **54.** Which of the following is an acute angle?







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



- Acute angle
 Right angle
- Obtuse angle de Straight angle
- 56. Which of the following is called a kite?





C.



- 57. How many faces does a cuboid have?

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

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



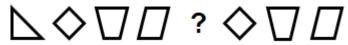
a. **>**

ь. 🔷

c. **《**

d.

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



a. 🔽

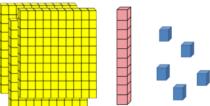
b. 🛮

c. ****

d. 🔷

Avance (Each Question is 6 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

▶ 191, 207

° 191, 204

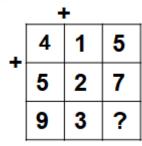
d. 194, 207

a. **V80**

b. **U80**

c. W80

- d. W60
- **64.** Find the missing number in the puzzle.



a. 9

b. 10

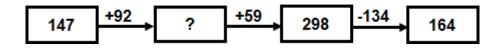
c. **11**

- 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**

- 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.

c. ___

d. ____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.
$$\frac{1}{8}$$

72. What is the resulting fraction?

$$41084 g = ___ kg ___ g$$

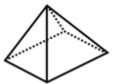
73. Fill in the blank:

$$70809 \text{ mI} = __ \text{I} __ \text{ml}$$

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?

| | | ag of flour weighs 200 g. If a chef needs 1 lour would he need? | kg o | f flour to bake a cake, how many such bags |
|--------------|------|---|------|--|
| ć | a. | 2 | b. | 3 |
| (| C. | 4 | d. | 5 |
| 76. l | Hov | w many hours in 180 minutes? | | |
| ć | a. | 1 | b. | 2 |
| (| С. | 3 | d. | 4 |
| | | ly makes an origami bird in 3 minutes. How nutes? | / ma | ny birds she would have made in 27 |
| ć | a. | 9 | b. | 10 |
| (| C. | 11 | d. | 12 |
| 78. l | l an | m a 2D shape with no sides and no corners | . Wh | o am I? |
| ć | a. | Square | b. | Triangle |
| (| C. | Circle | d. | Kite |
| | | | | |

The given figure has ____ vertices, ____ edges and ____ faces.



a. 4, 4, 4

b. 4, 6, 4

◦ **5**, **8**, **5**

d. 5, 8, 8

80. Fill in the blank:



a. **(**\(\sum \)

b. **\langle**

° OV

d. OO

Answer Key

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