# CREST Mathematics Olympiad (CMO)

## Previous Year Paper

## Class 4 (Set - A)

**Time Allowed: 1 hour**                    **Maximum Marks: 45**

- 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 **35 questions** in this booklet comprising **2 sections** namely the **Practical Mathematics & Achievers' Section** consisting of **25 questions (1 mark each) & 10 questions (2 marks each)** respectively.
- There is no negative marking. The use of a calculator is not permitted.
- There is **only ONE correct option** to a given question.
- Use **HB Pencil / Ball point pen (Blue / Black) 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. 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, digital watches, etc. inside the examination hall.
- The use of unfair means may result in the cancellation of the exam. Any such instances must 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: _____
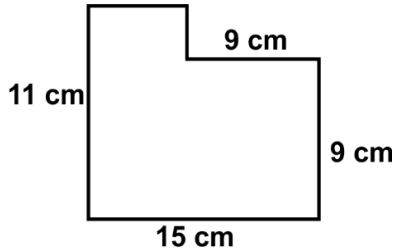
Class: _____ Section: _____

CREST ID: _____

# Practical Mathematics (Each Question is 1 Mark)

1. Ronald wrote the number 3467 in his book and asked his brother to tell him a random four-digit number. His brother told 8763. What is the result of adding both numbers?

   a. 12203       b. 12230
   c. 12302       d. 12330

2. Fill in the blank:
   $(9 - 1) \times 3 = 4 \times$ ___

   a. 4       b. 5
   c. 6       d. 7

3. Sia had 65 pens. Out of which she gave one-fifth to Ria. Out of the remaining, she donated one-fourth to charity. How many pens did she donate to charity?

   a. 13       b. 17
   c. 36       d. 42

4. Neol baked 8 cupcakes for her daughter and her friends. The weight of each cupcake is 170 grams. The entire box including the cupcakes weighs 1 kg 750 grams. Find the weight of the box:

   a. 360 grams       b. 390 grams
   c. 420 grams       d. 450 grams

5. Meh has $432 more than 7 times the money that Rebek has. If Rebek has $280, how much money does Meh have?

   a. $4,984       b. $3,654
   c. $2,392       d. $1,856

6. Which of the following correctly represents ninety-nine thousand nine hundred and nine?

   a. 99,990       b. 99,099
   c. 99,909       d. 99,999

7. Ali's mother gives him $5 per day as a reward for helping her in folding clothes. If Ali helps her only for 24 days in the month, how much money will he get as a reward at the end of the month?

   a. $120       b. $140
   c. $170       d. $200

8. Fill in the blank:
   26, 39, ___, 65, 78

   a. 41       b. 45
   c. 48       d. 52

9. Train A starts at 09:30 hours from station P and reaches station Q the next day at 14:25 hours. Train B starts at 11:30 hours from P and reaches station Q the next day at 15:25 hours. Which train took less time and by how much?

   a. A, 1 hour       b. A, 55 minutes
   c. B, 1 hour       d. B, 55 minutes

10. The length of a rectangle is twice its breadth. Find the length if the perimeter of the rectangle is 132 cm:

    a. 22 cm       b. 24 cm
    c. 44 cm       d. 48 cm

11. A bag of rice was 5/7 filled. Out of this, the family consumed 7/11 portions of the rice. What fraction of rice was left in the bag?

    a. 13/77       b. 6/77
    c. 5/11       d. 8/11

**12.** Taxi A travelled a distance of 47 km 328 m in a day. Taxi B travelled one-third of the distance travelled by Taxi A. Find the distance travelled by Taxi B:
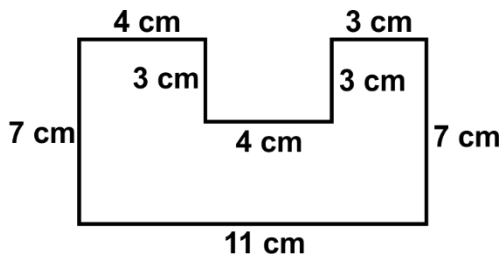
a. 15 km 478 m
b. 15 km 628 m
c. 15 km 776 m
d. 15 km 986 m

**13.** Find the perimeter of the given figure:



a. 50 cm
b. 52 cm
c. 100 cm
d. 104 cm

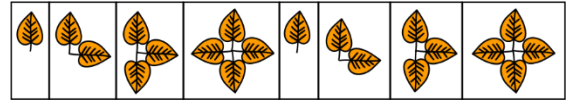**14.** Calculate the perimeter of the figure:



a. 36 cm
b. 72 cm
c. 42 cm
d. 84 cm

**15.** Samuel enjoys basketball. He used to practise every day in order to be ready for the tournament. He began keeping track of his time in the form of a line graph. How many hours did he practise on the first day?
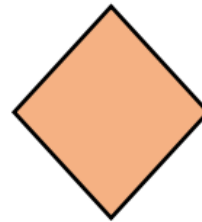


**16.** It was autumn, and Paty gathered many dried leaves from her lawn and arranged them as shown in the figure below. If she continues to arrange them in this pattern, how many leaves does she require at the tenth position?



a. 4
b. 3
c. 2
d. 1

**17.** Chiku has the shape shown below. How many lines of symmetry are there in the image below?



a. 1
b. 2
c. 3
d. 4

**18.** Teddy and her friends understand symmetrical shape concepts. How many lines of symmetry does a square have?

a. 4
b. 3
c. 2
d. 1

**19.** Seren has created an image and wants to know, how many lines of symmetry does this image have?



a. 1
b. 2
c. 3
d. 4

a. 30 minutes
b. 40 minutes
c. 50 minutes
d. 60 minutes

20. Amy was staring at the clock, wondering what kind of angle it would make.



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

21. Roe and Tia wanted to spend their evening in a unique way, so they went kiting. Can you tell what kind of kite they're flying?



a. Triangle
b. Rectangle
c. Rhombus
d. Trapezium

22. Albert owns a brand-new hotel with seven floors and thirty rooms on each floor. How many rooms does his hotel have in total?

a. 210
b. 240
c. 280
d. 300

23. Austina owns a car manufacturing factory. If each assembly line in the factory produces 73 cars per month, how many cars are produced each month by 8 assembly lines?

a. 235
b. 354
c. 423
d. 584

24. Duke went to a popular ice cream shop and inquired about how much ice cream they sell each day. They started 52 ice cream cones per day. The response surprised him. In one week, how many ice cream cones will be sold?

a. 290
b. 364
c. 421
d. 512

25. McDonald's has its own farm. There are 578 pigs, 234 cows, 522 cats, and 298 dogs on the farm. How many animals are there on the farm in total?

a. 1234
b. 1542
c. 1632
d. 1700

## Achievers' Section (Each Question is 2 Marks)

26. Fill in the blank:
(94 - ___ ) × 3 = 19 × 6

a. 34
b. 38
c. 42
d. 56

27. Andrea reaches home from her school at 3:15 PM. After spending 20 minutes finishing her food, she travels for 15 minutes to attend her piano class which lasts for 1 hour and 15 minutes. She then travels for 10 minutes to reach her dance class. After spending 45 minutes in the dance class, she reached home in 15 minutes. At what time did she reach home?

a. 6:15 AM
b. 6:10 PM
c. 6:15 PM
d. 6:20 PM

28. Reh gave one-fifth of his pocket money to his friend Anoe and bought a notebook from the remaining money. What is the
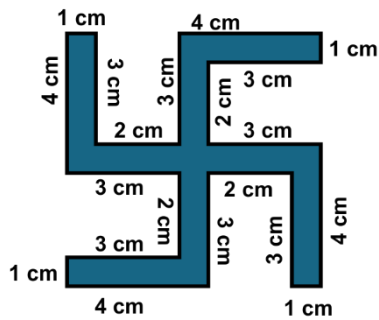
cost of the notebook if his pocket money was $350?

a. $250    b. $280
c. $320    d. $350

**29.** In a class of 30 students, 4 failed in the exam. What fraction of students passed the exam?

a. 14/15    b. 11/30
c. 2/15    d. 13/15
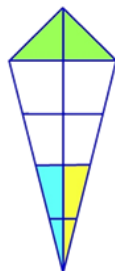
**30.** Find the perimeter of the given figure:



a. 44 cm    b. 46 cm
c. 48 cm    d. 52 cm

**31.** Find P + Q + R if:

```
   3 4 7 P
 × 2 5 3
 1 0 Q 3 1
 1 7 3 8 5
   6 9 5 4
 8 7 R 6 8 1
```

a. 7    b. 20
c. 26    d. 38

**32.** How many triangles are there in the picture?



a. 12    b. 14
c. 17    d. 20

**33.** If the perimeter of a square is twice that of a rectangle and the dimensions of the rectangle are 12 m by 8 m, find the side of the square:

a. 10 m    b. 15 m
c. 20 m    d. 25 m

**34.** Austina is a well-known doctor who has a habit of sending various fruits to patients. This month, she intends to send oranges. Analyse the pictograph below and estimate how many oranges she will distribute in week 2.



a. 7    b. 21
c. 210    d. 300

**35.** Donald visited a pizza restaurant where a large pizza costs $8.90 and a small pizza costs $5.20. What is the difference in price between a large and a small pizza?

a. $2.00    b. $3.70
c. $4.65    d. $5.20

# Answer Key

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | b | 2. | c | 3. | a | 4. | b | 5. | c | 6. | c | 7. | a |
| 8. | d | 9. | c | 10. | c | 11. | b | 12. | c | 13. | b | 14. | c |
| 15. | b | 16. | c | 17. | b | 18. | a | 19. | b | 20. | c | 21. | c |
| 22. | a | 23. | d | 24. | b | 25. | c | 26. | d | 27. | c | 28. | b |
| 29. | d | 30. | d | 31. | b | 32. | c | 33. | c | 34. | c | 35. | b |