



CREST Mathematics Olympiad (CMO)

Previous Year Paper

Class 3 (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. An extra plain sheet may be provided by the school for the rough work.
- The OMR Sheet will 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. Which of the following is the same as $6729 + 257$?

a. $6000 + 900 + 90$
 b. $6000 + 80 + 9$
 c. $6000 + 86$
 d. $6000 + 900 + 80 + 6$

2. If a grocer sells 24 eggs every day, then how many eggs does he sell in a week?

a. 164 b. 168
 c. 172 d. 176

3. For a class project, the children in the class are put into groups of 19. How many such groups are formed if the strength of the class is 475?

a. 18 b. 15
 c. 25 d. 21

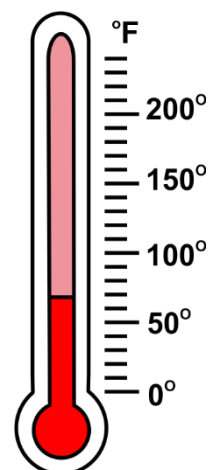
4. The cost of a chips packet is 25 cents and the cost of a tetra pack of milk is 30 cents. How much money will Peter pay the shopkeeper if he buys 3 packets of chips and 4 tetra packs of milk?

a. 150 cents b. 175 cents
 c. 180 cents d. 195 cents

5. A mug can hold 475 mL of water. How much water will 5 similar mugs hold?

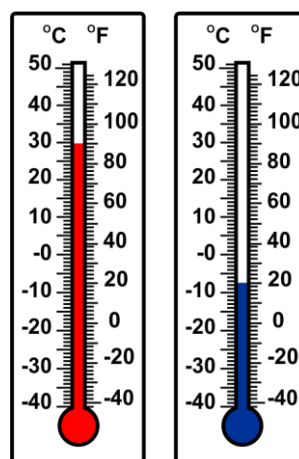
a. 1 L 375 mL
 b. 2 L 375 mL
 c. 2 L 525 mL
 d. 3 L 585 mL

6. What is the temperature shown in the thermometer given below?



a. 50°F b. 70°F
 c. 90°F d. 100°F

7. What is the difference in the temperatures shown in the thermometers given below?



a. 30°F b. 70°F
 c. 90°F d. 110°F

8. Sia purchases a water bottle for 250 cents, a tiffin box for 325 cents and a school bag for 520 cents. If she gives three notes of 500 cents to the shopkeeper, then how much money she will receive?

a. 205 cents b. 365 cents
 c. 405 cents d. 495 cents

9. A bucket can hold 8 L of water. If the bucket is one-fourth filled, then how much water is there in the bucket?

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

10. Out of 240 grams of sugar 180 grams of sugar was used to make a sweet dish. What fraction of sugar was used to make the sweet dish?

- a. $\frac{1}{4}$ b. $\frac{1}{3}$
c. $\frac{1}{2}$ d. $\frac{3}{4}$

11. A milkman sells 27 L 500 mL of milk every day. How much milk does he sell in a week?

- a. 192 L b. 192 L 500 mL
c. 193 L d. 193 L 500 mL

12. A train that was about to arrive at the station at 9:20 AM is running late by 7 hours 35 minutes. At what time will it arrive at the station?

- a. 4:55 AM b. 4:55 PM
c. 5:55 AM d. 5:55 PM

13. Soh slept at 10:30 p.m. and woke up at 5:45 a.m. on the next day. For how many hours did she sleep?

- a. 10 hours
b. 7 hours 15 minutes
c. 8 hours 45 minutes
d. 7 hours

14. Alice went shopping with her sister. Of the amount that she had, she spent two-thirteenth of it on shoes and five-thirteenth of the amount on clothes. What fraction of the amount did she spend in all?

- a. $\frac{7}{15}$ b. $\frac{7}{13}$
c. $\frac{7}{11}$ d. $\frac{3}{13}$

15. For an event in the school, chairs were arranged so that there were 45 chairs in each column. If there were 945 chairs in all, then find the number of columns of chairs:

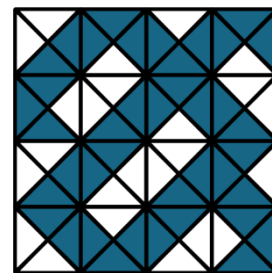
- a. 21 b. 48
c. 25 d. 42

16. Fill in the blank:

A polygon with 3 sides is called _____.

- a. triangle b. rectangle
c. square d. circle

17. Which of the following options represents the correct fractional form of the image given below:

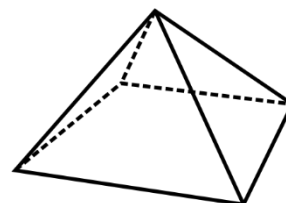


- a. $\frac{5}{16}$ b. $\frac{5}{8}$
c. $\frac{4}{5}$ d. $\frac{3}{16}$

18. What will be the remainder when 7250 is divided by 24?






- a. 22 b. 28
c. 2 d. 18

19. How many faces does the given shape have?



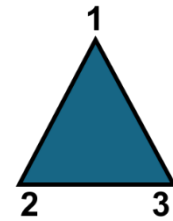
- a. 4 b. 5
c. 6 d. 7

20. The given pictographs show different trees on a farm. What is the number of Guava and Apple trees on the farm?

Tree	Number of trees in the farm
Apple	
Mango	
Guava	
Lychee	
1  = 7 trees	

- a. 38 b. 11
c. 41 d. 77
21. What is the smallest 4-digit number that can be formed using the digits 8, 1 and 4?
- a. 1,148 b. 8,841
c. 8,441 d. 1,448
22. If $39 \times 13 = 507$ then the value of $507 \div 13$ is equal to:
- a. 29 b. 39
c. 13 d. 11
23. Duke is having fun with number puzzles. He wants to pick a number with the digits listed below and use all

of them one time. Which is the correct number that meets all of the requirements?



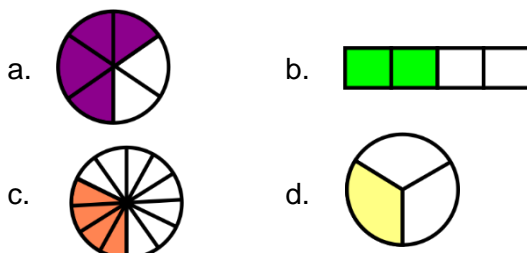
- a. 131 b. 321
c. 311 d. 233
24. Diana has starred in her activity kit and wants to arrange them in a pattern. If she continues to arrange the stars in the pattern shown in the image, which coloured star will appear next?
- a. Black b. Red
c. Green d. Blue
25. Duke has some number cards with him that he has arranged in a pattern, and he wants to know which number will complete the pattern shown.



- a. 44 b. 46
c. 47 d. 49

Achievers' Section (Each Question is 2 Marks)

26. Which of the following represents $\frac{2}{3}$ of a shaded fraction?



27. Sia is working on mixed operation problems. Her father asked her to identify X and Y by giving her the following problem:
- $$4215 + 2187 - 1245 = X$$
- $$7682 - X = Y$$
- a. 4125, 1256 b. 1256, 4125
c. 2525, 5157 d. 5157, 2525

28. The cost of a dozen bananas is 96 cents. What will be the cost of 864 bananas?

- a. 82,944 cents
- b. 41,472 cents
- c. 6,912 cents
- d. 8,764 cents

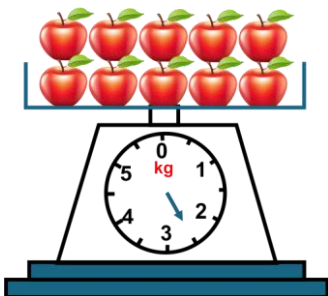
29. Seh reaches the park at 5:10 PM. Her mother allows her to play in the park for 25 minutes and then takes her to the dance class. If it takes her 10 minutes to drop Seh to the dance class, when does she reach the dance class?

- a. 5:35 PM b. 5:45 PM
- c. 5:55 PM d. 5:45 AM

30. Ken went to his best friend's birthday celebration. They conducted multiple games for children. Whoever wins the competition receives a prize. Ken won five prizes in the competition, including two cash prizes. Each cash prize gift is worth 150 cents. He was so happy that he gave half of the money to his mother and spent the other half on a painting set worth 23 cents and 20 sketch markers worth 5 cents. How much money does he still have?

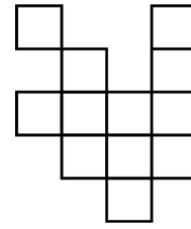
- a. 20 cents b. 23 cents
- c. 27 cents d. 30 cents

31. The given figure shows the weight of a few apples. If the weight of each apple is the same, then find the weight of 1 apple:



- a. 25 g b. 1 kg
- c. 250 g d. 2.5 g

32. The given figure is made of same-sized squares, with each side 2 cm (not to scale). Find the perimeter of the figure:



- a. 64 cm b. 26 cm
- c. 32 cm d. 52 cm

33. Which of the given statements is/are true?

Statement 1: A cuboid has 4 faces.

Statement 2: A rectangle has 4 vertices.

Statement 3: A cylinder is a quadrilateral.

- a. Both statements 1 and 3 are true.
- b. Both statements 2 and 3 are true.
- c. Only statement 1 is true.
- d. Only statement 2 is true.

34. How many 4's are in 32?

- a. 4 b. 6
- c. 8 d. 9

35. Roe is a guitarist who used to teach children. He has received numerous admissions this month. So, he used to teach every day except Thursday and Sunday. How many students will attend each week?

Monday	😊😊😊
Tuesday	😊😊😊😊😊
Wednesday	😊😊
Thursday	
Friday	😊
Saturday	😊😊😊😊
Each 😊 means 4 students	

- a. 15 b. 30
- c. 50 d. 60

Answer Key

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