

**CREST Mathematics Olympiad (CMO)****Sample Paper****Pattern and Marking Scheme**

Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 2	Practical Mathematics	25	1	25
	Achiever's Section	10	2	20
Grand Total		35		45

The total duration of the exam is 60 minutes.

Syllabus

Section 1: Numerals, Number Names and Number Sense (3-Digit Numbers), Computation Operations, Length, Weight, Capacity, Time, Temperature, Money, Lines, Shapes and Solids, Pictographs, Patterns.

Achievers Section: Higher Order Thinking Questions - Syllabus as per Section 1

For more details, visit <https://www.crestolympiads.com/maths-olympiad-cmo>

Practical Mathematics (Each Question is 1 Mark)

1. Mia had \$100 with her. Her father gave her \$50 as pocket money. Her grandmother gave her \$100 as a birthday gift. How much money does she have altogether?

- a. \$150
b. \$200
c. \$100
d. \$250

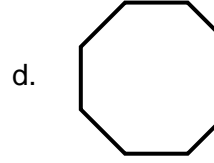
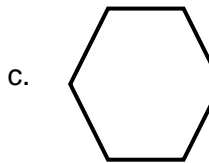
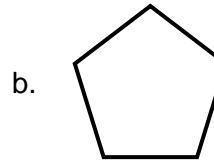
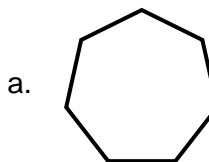
2. Roger started his homework at the time mentioned on the clock. He finished his homework in 3 hours and 15 minutes. At what time did he finish his homework?








3. If Mango = 400 grams, Apple = 200 grams and Mango + Apple + Grapes = 800 grams, then what will be the weight of Grapes?

- a. 100 grams
b. 200 grams
c. 300 grams
d. 400 grams

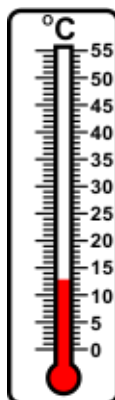
4. Which of the following shapes has maximum number of sides?



5. Based on the image given below answer the following question:
Who has the maximum number of crayons?

Tia	
Milo	
Bruce	
Tom	
Each	 Stands for 5 crayons

- a. Tia
c. Bruce
- b. Milo
d. Tom
6. Oscar has to board a train that arrives at the station at 4:20 p.m. If he reaches the station at 3:45 pm, then how long will he have to wait at the platform?
- a. 45 minutes
c. 50 minutes
- b. 40 minutes
d. 35 minutes
7. I am a two-digit number between 20 and 30. My ten's place digit is greater than one's place digit. Who am I?
- a. 28
c. 21
- b. 27
d. 23
8. George is curious about which of the choices below is the odd one out assist him
- a. Height of building = 12 m
c. Weight of stone = 2 kg
- b. Height of chair = 2 m
d. Length of rod = 25 cm
9. What is 12°C more than the temperature given in the thermometer?



- a. 13°C
c. 25°C
- b. 3°C
d. 1°C

10. Peter is taller than Siel by 38 cm. If Siel is 118 cm tall, then what is Peter's height?

- a. 172 cm
- b. 132 cm
- c. 156 cm
- d. 148 cm

11. Fill in the blank:

127, _____, 141, 148, 155

- a. 132
- b. 134
- c. 131
- d. 133

12. Which of these correctly represents 973?

- a. Nine hundred and thirty-seven
- b. Nine hundred and seventy-three
- c. Nine hundred and thirty
- d. Nine hundred and seven

13. If the position of R and U is interchanged, then who will be second from the left?



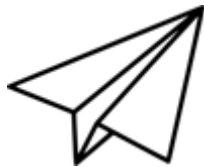
- a. P
- b. Q
- c. R
- d. W

14. Fill in the blank:

$135 + 48 + \underline{\hspace{1cm}} = 534 - 123 + 42$

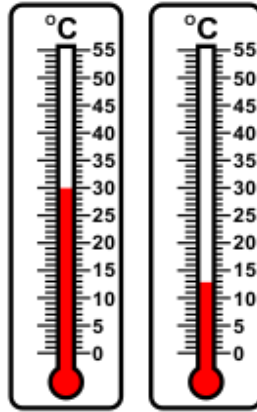
- a. 135
- b. 183
- c. 270
- d. 453

15. How many straight lines are there in the picture given below?



- a. 6
- b. 7
- c. 8
- d. 9

16. What is the sum of the temperatures shown in the two thermometers?



- a. 27°C
- b. 17°C
- c. 33°C
- d. 43°C

17. Which one of these has maximum number of straight lines?



18. Peter's school declared summer vacations from May 18.

For how many days did the teachers attend the school if their vacations started on the same date and if they had to report to school on all Saturdays?

May 2019						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- a. 17 days
- b. 18 days
- c. 19 days
- d. 20 days

19. Who is third from the right of T?



- a. V
- b. R
- c. W
- d. Q

20. What is the sum of the largest 3-digit number and the smallest 3-digit number?

- a. 1,999
- b. 9,999
- c. 1,100
- d. 1,099

















21. Lucy and a friend went to the beach, where Lucy collected 95 pounds of shells. Her friend gathered 15 pounds of shells. How many pounds of shells do they have in total?

- a. 100
- b. 110
- c. 115
- d. 120

22. Tom enjoys reading. He was doing research on the growth. There are four reference book shelves. There are four reference books on each shelf. How many reference books are there in total?

- a. 12
- b. 14
- c. 16
- d. 20

23. Five friends planned to show off their toys to one another. They had a lot of toys, so they decided to show them in pictograph form, as shown in the image below. Amy and Lucy have how many toys together?

One  represents 10 Toys	
Name	Number of Toys
Amy	 
Lucy	   
Tia	  
Dolly	    
Sia	

- a. 20
- b. 40
- c. 60
- d. 80

24. Mike had four quarters and four dimes. How much money did Mike have left after he gave Marshal 50 cents?

- a. 50 cents
- b. 70 cents
- c. 80 cents
- d. 90 cents

25. How many months will be there for 3 years?

- a. 12
- b. 24
- c. 36
- d. 48

Achiever's Section (Each Question is 2 Marks)

26. Which of these statements is correct regarding the picture given?



- a. Cake is heavier than fruits
- b. Fruits are heavier than cake
- c. Cake and fruits are equal in weight
- d. Fruits are lighter than cake

27. Alice went to the supermarket with 800 cents. She did some shopping for 530 cents and spent 60 cents on the metro for commuting in one direction. If she took the metro for both to and travel, then how much money is left with her?

- a. 120 cents
- b. 150 cents
- c. 130 cents
- d. 170 cents

28. Max went from his home to his school by cycle and then walked from school to the library. He walked back from the library to school to take his cycle and came back home. How much distance did he cycle?



- a. 1 km 470 m
- b. 1 km 570 m
- c. 1 km 200 m
- d. 1 km 238 m

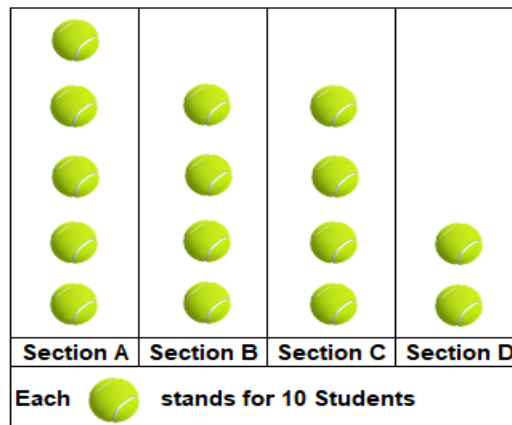
29. Find the missing number:
 $128 + 314 - ? = 653 - 482$

- a. 271
- b. 583
- c. 571
- d. 143

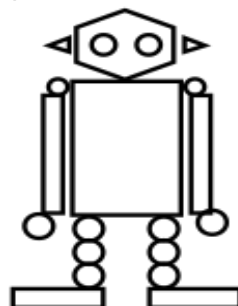
30. Oliver went shopping on the second Sunday of the month. After checking for the products, she found 2 of them faulty and returned them on the immediate Tuesday as the shop remains closed every second Monday of the month. On which date did she return the products?

January 2019						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- a. January 14
b. January 15
c. January 22
d. January 28
31. What is the number name for 134 more than 625?
- a. Seven hundred and ninety
b. Seven hundred and ninety-five
c. Seventy-nine
d. Seven hundred and fifty-nine
32. The given picture shows the number of students in sections A, B, C and D of class 2. How many students should be transferred from section C to D so that there are equal number of students in both sections?



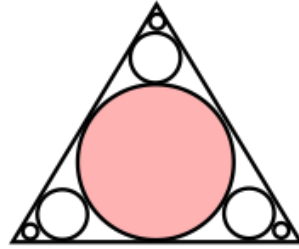
- a. 1
b. 2
c. 10
d. 20
33. How many circles are there in the picture?



- a. 8
- c. 6

- b. 10
- d. 12

34. How many circles are there in the picture?



- a. 5
- c. 7

- b. 6
- d. 8

35. The organisation is holding a painting activity in which six groups of students have participated. Each group is made up of four students. How many students took part in the painting activity?

- a. 20
- c. 24

- b. 22
- d. 28

Answer Key

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