CREST Mathematics Olympiad (CMO)
Sample Paper

Grade 3

Pattern and Marking Scheme

Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 3	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 (4-digit numbers), Computation Operations, Fractions, Length, Weight, Capacity, Temperature, Time, Money, Geometry, Data Handling.

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

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

1. Match the following:

	Column I		Column II
A.	Four thousand and fifty-four	i.	4550
B.	Four thousand three hundred and fifteen	ii.	4054
C.	Four thousand five hundred and fifty	iii.	4315

a. A-(ii), B-(iii), C-(i)
b. A-(i), B-(iii), C-(ii)
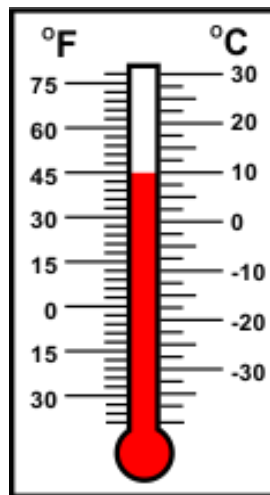c. A-(iii), B-(ii), C-(i)
d. A-(ii), B-(i), C-(iii)

2. Weight of one earthen lamp is 120 grams. These lamps come in boxes of 10. What is the weight of the box in which it is packed if the weight of the box and earthen lamps taken together is 1 kg 370 grams?

a. 270 grams
b. 210 grams
c. 170 grams
d. 90 grams

3. A milkman mixes water in his milk while selling. If in 20 L of milk, he mixes 4 L 750 mL of water, what will be the quantity of milk and water mixture he will have for selling?
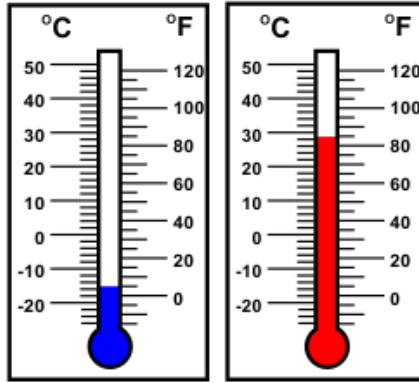
a. 24 L 750 mL
b. 22 L 700 mL
c. 21 L 750 mL
d. 25 L 750 mL

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

a. 40ºF
b. 45ºF
c. 50ºF
d. 55ºF

5. What is the sum of the temperatures shown in the thermometers?

a. 17ºC

b. 110º F

c. 41ºC

d. 90ºF

6. Which of the following figures is made of straight lines only?

a.

b.

c.

d.

7. Which of these is same as 3945 - 1540?

a. 1780 + 1345

b. 1250 + 1155

c. 2790 - 255

d. 3780 - 1275

8. Seil has 137 marbles with him. He gives 28 and 29 marbles to Reh and Roh, respectively. How many marbles will be left with Seil?

a. 80

b. 97

c. 127

d. 194

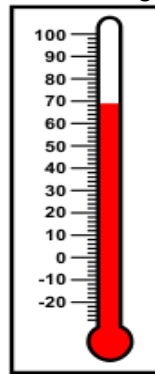**9.** Diana drew a set of squares and coloured a few squares. What fraction of the figure is unshaded?

a. 1/5

b. 2/5

c. 3/5

d. 2/3

10. A dozen bananas are stored in a sack and cost 12 cents each. Determine the total cost of bananas in the sack.

a. 144 cents

b. 336 cents

c. 3,260 cents

d. 4,032 cents

11. Samuel has only 120 cents in her purse. He wants to buy a crayon set and a sketch pen set costing 80 cents and 170 cents, respectively. How much more money does he need?

a. 250 cents
b. 180 cents
c. 150 cents
d. 1330 cents

12. The capacity of the fuel tank of a car is 65 L. It contains 36 L 335 mL of petrol. How much more petrol can it hold?

a. 101 L 335 mL
b. 29 L 665 mL
c. 111 L 335 mL
d. 28 L 665 mL

13. A train reached the station at 11:45 a.m. and departed from the station at 12:10 p.m. Ransel wanted to board the train but missed it by 10 minutes. At what time did he reach the platform?

a. 11:55 a.m.
b. 12:05 p.m
c. 12:15 p.m
d. 12:20 p.m

14. What is the reading on the thermometer in ºF, given below?

a. 60ºF
b. 80ºF
c. 68ºF
d. 90ºF

15. Identify the value of Y - X:

1 7 X 2
× 4
———
Y 0 0 8
———

a. 2
b. 3
c. 4
d. 5

16. Vyan likes chocolates, Out of 28 chocolates, Vyan consumed one-fourth. How many chocolates are left?

a. 7
b. 14
c. 21
d. 24

17. Ren gave $3400 to his college fee and they gave him $300 in return. What was the fee amount?

a. $3700
    c. $2700

    b. $3100
    d. $2100

18. Which of the following should come in place of?
A : D :: K : ?

    a. B
    c. L

    b. P
    d. M

19. What is the time depicted in the clock?

    a. Quarter to twelve
    c. Quarter to one

    b. Quarter past twelve
    d. Quarter past one

20. Deru has written some alphabets and she wants to know the odd one out of it. Identify the odd one out.

    a. X
    c. A

    b. L
    d. E

21. Which of the given options shows the correct expanded form of 8904?

    a. 800 + 900 + 0 + 4
    c. 8,000 + 0 + 90 + 4

    b. 8,000 + 900 + 0 + 4
    d. 8,000 + 900 + 0 + 40

22. Fill in the blank:
A number divisible by 2 is a/an _____ number.

    a. Even
    c. Both odd and even

    b. Odd
    d. None of the given options

23. At the airport, Ahmed saw the time as 22:25 hours. Choose the correct representation of the given time in the following clocks:

a.

b.

c.

d.

24. The given table shows the amount of money that Harsha saved in her piggy bank each month. Find the total amount of money that she saved from January to May:

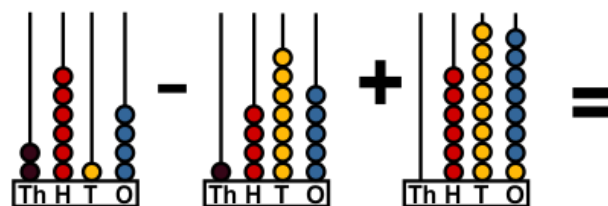| Month	Amount in a piggy bank in each month
January	$1050
February	$810
March	$535
April	$900
May	$1175

a. $6,240
b. $4,470
c. $5,120
d. $3,850

25. On her birthday, Selina took 60 chocolates to school. Half of the chocolates were eaten by her classmates and one-fourth of the total chocolates were eaten by her friends of a different section. How many chocolates does she still have?

a. 45
b. 30
c. 20
d. 15

Achiever's Section (Each Question is 2 Marks)

26. Geol sold 129 eggs per day. How many eggs did he sell in the month of November and December if he worked every day at his shop?

a. 7,744
b. 7,998
c. 7,869
d. 3,870

27. Out of 240 grams of sugar 180 grams of sugar was used to make a sweet dish. What fraction of sugar remained unused?

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

28. Roh and Sam have $120 and $135 each. Sem has $35 more than the sum of the money of Roh and Sam have taken together. How much money does Sem have?

a. $255
b. $315
c. $335
d. $290

29. Weight of 4 red, 4 blue and 4 yellow balls is 2 kg 800 g. What is the weight of 1 red, 1 blue and 1 yellow ball?
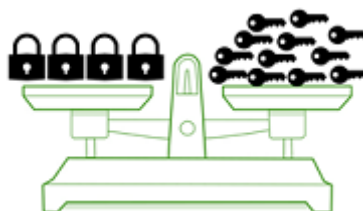
a. 400 g
b. 500 g
c. 600 g
d. 700 g

30. A family consumes 3 L 550 mL of milk every day. What will be their milk consumption for the month of January?

a. 106 L 500 mL
b. 110 L 50 mL
c. 102 L 95 mL
d. 111 L 550 mL

31. Reh attends swimming classes from 4:00 p.m. for 1 hour. He then takes 15 minutes to reach for his guitar classes. He learns guitar for 50 minutes and then takes 20 minutes to reach his home.
At what time does he reach home?

a. 5:55 p.m.
b. 6:25 a.m.
c. 6:25 p.m.
d. 6:10 a.m.

32. Roselina went to the shopping mall in an autorickshaw which is at a distance of 7 km 498 m from her home. On the way back, she had to walk for a distance of 1 km 128 m as there was no autorickshaw available. Then she boarded an auto-rickshaw and returned home. How much distance did she travel in the autorickshaw on her way back?

a. 13 km 968 m
b. 6 km 370 m
c. 14 km 996 m
d. 6 km 770 m

33. Roger is a businessman. He invested in different firms. He invested $3000 in edutech firm, $2789 in marketing, $3675 in IT firm and $873 in Non IT firm. In which firm does he invested more?

a. Marketing
b. Edutech
c. NON IT
d. IT

34. Solve:

a. 1,401
b. 1,936
c. 1,826
d. 2,435

35. Using the given figure, find the weight of each lock if the weight of 3 keys is 1 kg:

a. 12 kg
b. 1 kg
c. 4 kg
d. 3 kg

Answer Key

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