



## CREST Mathematics Olympiad (CMO)

# Sample Paper

## Pattern and Marking Scheme

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

The total duration of the exam is 60 minutes.

## Syllabus

**Section 1:** Numerals, Number Names, Number Sense (2 digit numbers), Addition, Subtraction, Lengths, Weights and Comparisons, Time, Money, Geometrical Shapes and Solids, 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. There are 80 flowers in the park comprising roses, lilies, and marigolds. If there are 25 roses and 40 lilies, find the number of marigolds.



- a. 15  
b. 25  
c. 20  
d. 30

2. Number name for 214 is:

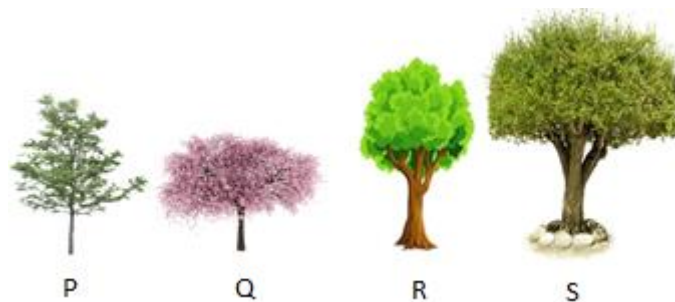
- a. Two one and four  
b. Two hundred and four  
c. Two hundred and fourteen  
d. Two hundred and fifteen

3. Which of these shapes should be combined with the given shape to form a circle?



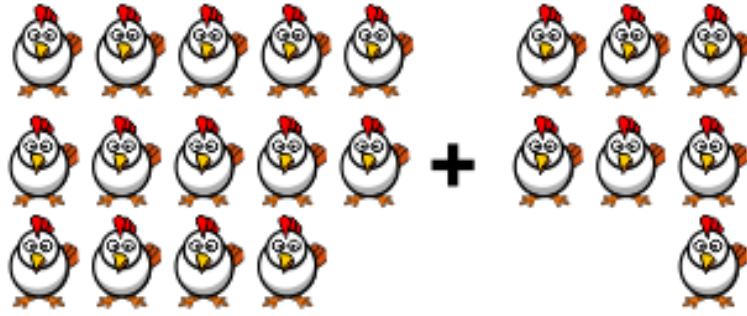
- a.  b. 
- c.  d. 

4. Arrange these trees in increasing order of their heights:



- a.  $P > Q > R > S$   
b.  $Q > P > R > S$   
c.  $Q < P < R < S$   
d.  $Q < R < P < S$

5. Look at the image given below and add:



6. Which of these is odd one out?



7. Car A covered a distance of 22 km in 2 hours 30 minutes whereas Car B covered the same distance in 1 hour 30 minutes. What is the extra time taken by Car A?

- a. 30 minutes
- b. 1 hour
- c. 60 minutes
- d. Both b and c

8. Sony weighs 7 kg less than her brother Albert. If Albert's weight is 43 kg, then what is Sony's weight?

- a. 36 kg
- b. 35 kg
- c. 37 kg
- d. 50 kg

9. Which of these objects is the lightest in weight?



10. How much will Roh pay for a cricket bat of \$65 and a cricket ball of \$25?

- a. \$90  
c. \$85

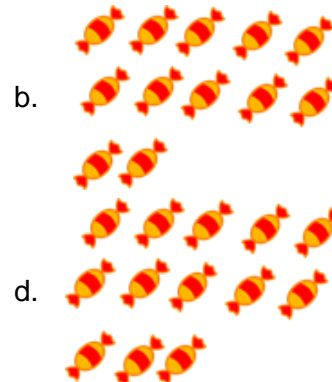
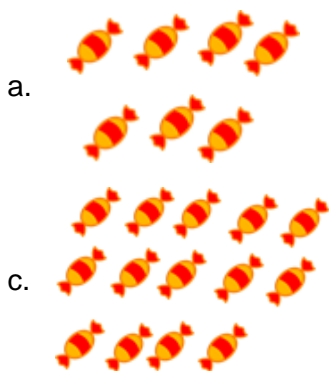
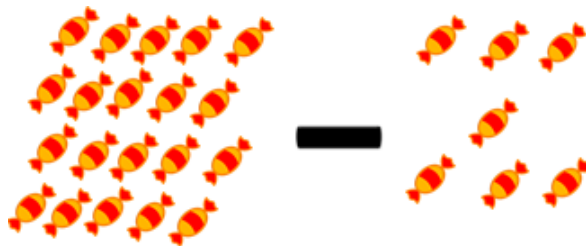
- b. \$80  
d. \$95

11. Pia has 25 cents and Alexa has 30 cents. How much money do they have altogether?

- a. 55 cents  
c. 45 cents

- b. 50 cents  
d. 60 cents

12. Look at the image given below and subtract:



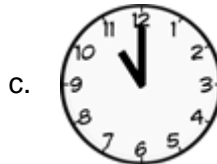
13. How many balloons are there in the picture?



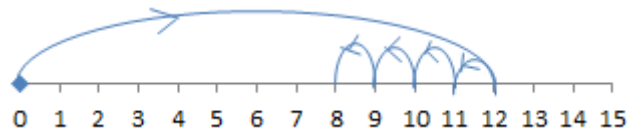
- a. 7
- c. 8

- b. 6
- d. 5

14. At what time will Sil have his lunch?



15. Identify the correct number statement:



- a.  $12 - 4 = 8$
- c.  $8 + 4 = 12$

- b.  $4 + 8 = 12$
- d.  $14 - 8 = 6$

16. Which of these number names represents 101?

- a. One hundred
- c. One hundred and ten

- b. One hundred eighteen
- d. One hundred and one

17. Seal has 12 apples. Her sister gave her 2 more apples. But her brother takes away 3 apples from her. How many apples does Seal have now?

- a. 11
- c. 12

- b. 10
- d. 14

18. Hansel goes to the market to buy a notebook worth 35 cents and a box of crayons worth 40 cents. How much money will she have to pay to the shopkeeper?

- a. 65 cents
- c. 75 cents

- b. 160 cents
- d. 70 cents

19. How many more triangles are there than squares?



- a. 1
- c. 3

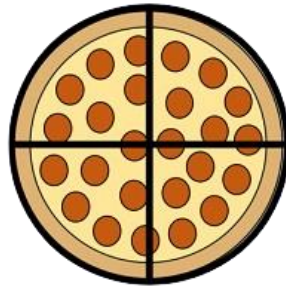
- b. 4
- d. 2

20. Diana visited a pet store and saw 5 dogs there. How many legs altogether do these five dogs have?



- a. 10  
b. 12  
c. 15  
d. 20

21. Samuel placed an order for 4 pizzas, each with 4 slices. How many total slices are there?



- a. 10  
b. 12  
c. 14  
d. 16

22. Fill in the blanks:

- i. There are \_\_\_\_ groups of bananas.  
ii. There are \_\_\_\_ bananas in each group.  
iii. There are \_\_\_\_ bananas altogether.



- a. i – 5, ii – 5, iii - 20  
b. i – 5, ii – 5, iii - 15  
c. i – 3, ii – 4, iii - 20  
d. i – 3, ii – 5, iii - 15

23. Drawing created by Alice. Exactly how many triangles are depicted in the image?



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

24. Dora was solving patterns. Fill in the missing numbers in it.



- a. 8, 9  
b. 9, 10  
c. 9, 11  
d. 8, 11

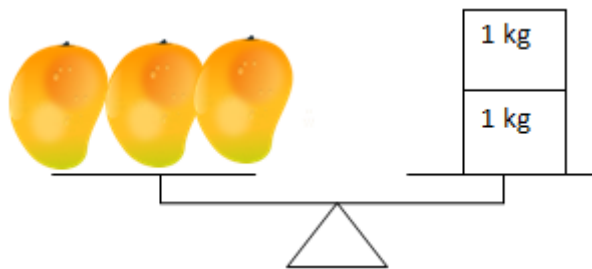
25. How many triangles will come in the next row?



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

## Achiever's Section (Each Question is 2 Marks)

26. What is the weight of 12 mangoes?



- a. 6 kg
- b. 8 kg
- c. 10 kg
- d. 12 kg

27. How many more rectangles are there than circles?



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

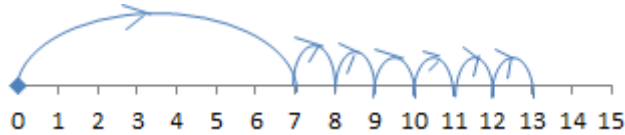
28. Anthony's school is 12 km from his home and the library is 15 km from his home. Which of these is farther from his home and by how much more distance?

- a. School, 12 km
- b. Library, 15 km
- c. School, 3 km
- d. Library, 3 km

29. Roe decides he wants to spend some time participating in extracurricular activities, so he attends dancing class for an hour and a half and tennis practice for two hours. How long did he spend taking tennis and dance classes together in total?

- a. 3 hours 30 minutes
- b. 2 hours 30 minutes
- c. 3 hours
- d. 4 hours

30. Identify the correct number statement:



- |                 |                 |
|-----------------|-----------------|
| a. $7 + 7 = 14$ | b. $13 - 6 = 7$ |
| c. $7 + 6 = 13$ | d. $13 - 7 = 6$ |

31. Sil reaches the library cycling for 25 minutes. On the way back she cycles faster and reaches home in 15 minutes. How much more time did she take while going to the library from home?

- |               |               |
|---------------|---------------|
| a. 10 minutes | b. 5 minutes  |
| c. 15 minutes | d. 20 minutes |

32. Mr. Zec planned a party with friends and ordered 56 cupcakes, but only 42 were delivered. How many cupcakes do not arrive?

- |       |       |
|-------|-------|
| a. 15 | b. 14 |
| c. 13 | d. 12 |

33. Rebecca purchased some candies and organised them into groups of four. How many candies did she purchase in total?

5 groups  $\times$  4 = \_\_\_\_\_.



- |       |       |
|-------|-------|
| a. 15 | b. 20 |
| c. 25 | d. 30 |

34. Mike has 3 quarters, and he finds 2 dimes and 1 penny in the drawer. How much money does he have in all?

- |             |             |
|-------------|-------------|
| a. 45 cents | b. 76 cents |
| c. 78 cents | d. 96 cents |

35. Mike purchased several shapes from a craft store and assembled them as shown in the picture below. Count how many rectangles there are in it.



- |      |      |
|------|------|
| a. 7 | b. 6 |
| c. 4 | d. 2 |



## Answer Key

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