



Stage I



Grades 1-3

CREST Teacher Reasoning Olympiad (CTRO)

Sample Paper

Pattern and Marking Scheme

Stage	Topic/Section	No. of Questions	Marks per Question	Total Marks
For Stage I (Grades 1-3)	Logical Reasoning	30	3	90
	Achiever's Section	20	6	120
Grand Total		50		210

The total duration of the exam is 60 minutes.

Note: For every incorrect answer, there's a penalty of 1/3rd of the total marks allotted to that question.

Syllabus

Geometrical Shapes, Grouping of Figures, Embedded Figures, Odd One Out, Pattern, Measuring Units, Ranking Test, Spatial Understanding, Coding and Decoding, Series Completion, Patterns, Analogy and Classification, Mirror Images and Water Images, Direction Sense Test, Alphabet Test and Logical Sequence of Words, Puzzle Test

For more details visit: <https://www.crestolympiads.com/teacher-reasoning-olympiad>

Logical Reasoning (Each Question is 3 Marks)

1. Out of the yellow, blue, red, and green power rangers, green is to the left of blue, yellow is between red and blue, and red is the first from the right. Who is in the 2nd position from the left?

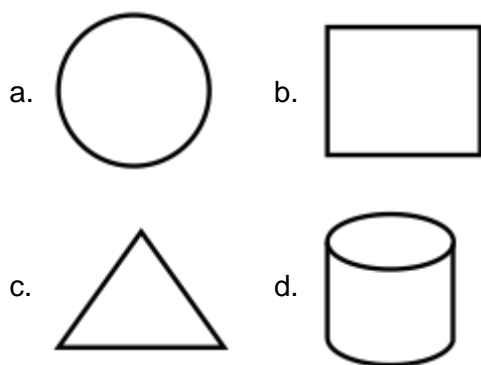
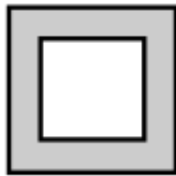
a. Yellow b. Blue
c. Red d. Green

2. Different objects are given below. How many objects have U-shaped in upward direction?



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

3. Look at the object given below. Which among the following objects matches with the given object?

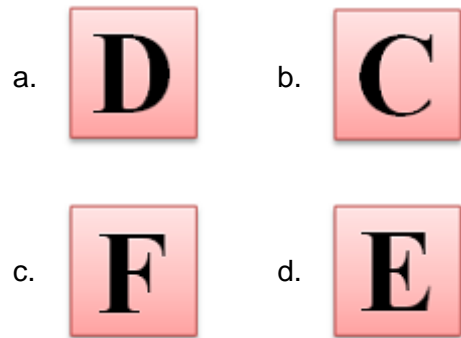


4. Which among the following objects would be heaviest?

1. Computer
2. Cup
3. Pillow
4. Toy train

a. Pillow b. Toy train
c. Computer d. Cup

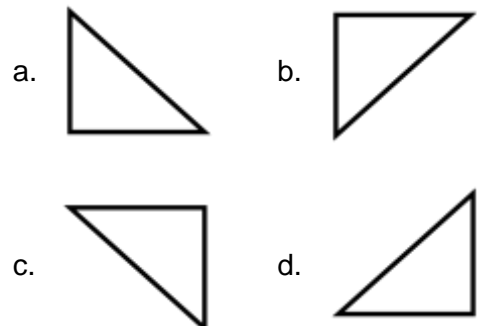
5. What will come next in the following pattern?



6. Pick the odd one out:

a. Pink b. Yellow
c. White d. Dark

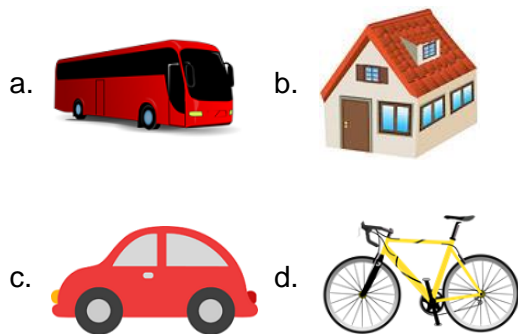
7. Find the next figure of the following series:



8. Ron has six books. Peter has three books. Rose has three more books than Prince. Who among the three has the lowest number of books?

a. Peter
b. Ron
c. Rose
d. Cannot be determined

9. Choose the odd one out:

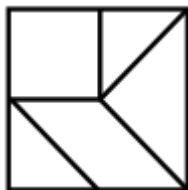


10. What will come next in the following series?

6 1 2 3 6 1 2 3 6 1 2 ?

a. 1
b. 2
c. 3
d. 6

11. Find the number of triangles in the given figure:



a. 3
b. 4
c. 5
d. 6

12. Which of the following parameters can be measured using the given instrument?

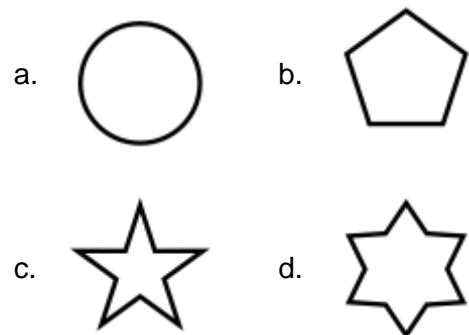


a. Weight
b. Temperature
c. Light
d. Length

13. If CAT = 3, MOUSE = 5, then GOAT = ?

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

14. Three of given figures are identical in a certain way. Choose the one that is different from the rest:



15. Find the missing term in the given series.

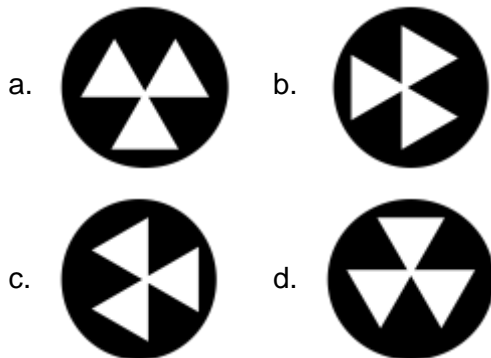
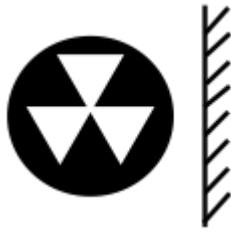


a. W
b. E
c. F
d. T

16. Town D is towards the East of town F. Town B is towards the North of town D. Town H is towards the South of town B. Towards which direction is town H from town F?

a. East
b. South-East
c. South-West
d. South-East or North-East or East

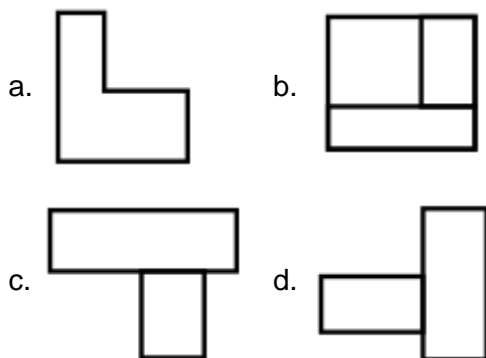
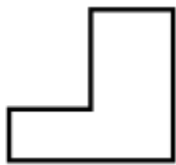
17. Which of the following will be the correct mirror image of the given figure?



18. In a certain code language, "how are you" is written as "HAY", "best of luck" is written as "BOL", then in the same language, "you are best" will be written as:

- a. YAB b. BAY
c. BY d. TEU

19. Which of the following figures is similar to the given figure?



20. Three words are given in the following question, which have something in common among themselves. Out of four given alternatives, choose the most appropriate description about these three words:

Metre : Mile : Kilometre

- a. They are units of volume.
b. They are units of measuring time.
c. They are units of distance.
d. They are units of weight.

21. Doctor is related to Patient in the same way as Lawyer is related to _____:

- a. Customer b. Judge
c. Magistrate d. Client

22. If Cap : Head, then Belt : ?

- a. Belly b. Waist
c. Leather d. Pant

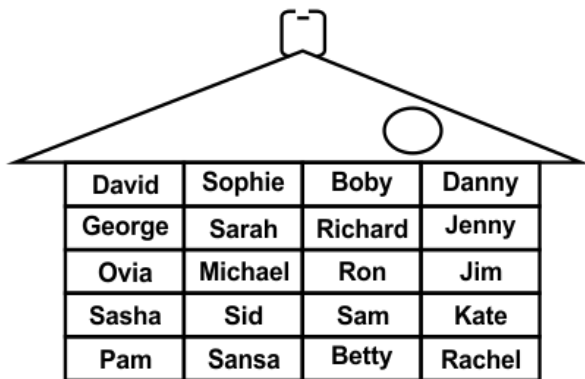
23. The following figure shows six persons sitting in a straight row, facing towards north. How many persons are sitting to the right of Kevin?



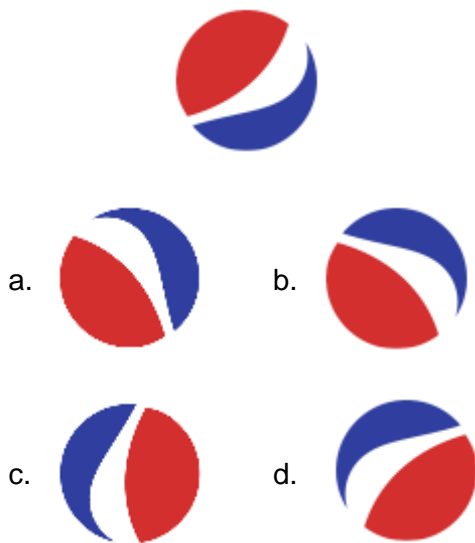
Michael Kate Kevin Tom Jack James

- a. Two b. Three
c. One d. Four

24. In the following figure, each block represents a room and the name represents the person living in that room. Whose room is second to the left of Betty's room?



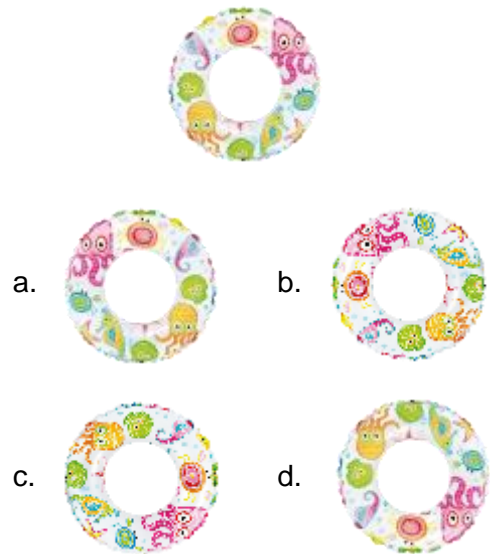
- a. Richard b. Sasha
c. Richard d. Pam
25. Identify the correct water image of the following figure.



26. This question is based on the following information.
Four books of different subjects viz. Science, English, History and Geography are kept in a vertical stack. One book is kept between English and Geography. Science is kept above English. Neither History nor English is kept at the bottom. Which of the following books is kept at the top?

- a. Science b. English
c. History d. Geography

27. Identify the correct water image of the following figure.



28. Which of the following words can be formed by using the letters of the word - "COMEDIAN"?

- a. Medium b. Conceal
c. Mould d. Cinema

29. Aman is standing towards the west of Sonam who is standing towards the north of Sohail. In which direction is Aman with respect to Sohail?

- a. South West
b. South East
c. North-West
d. Cannot be determined

30. How many meaningful words of four letters can be formed by using the second, third, fifth and last letters of the word 'AUTOSAVED'?

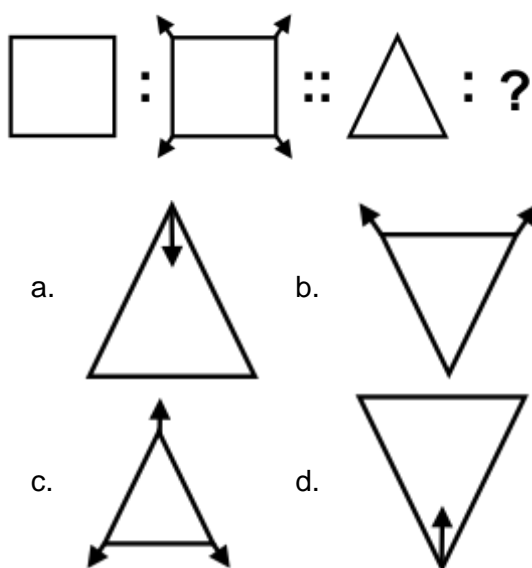
- a. Three b. None
c. One d. Two

Achievers' Section (Each Question is 6 Marks)

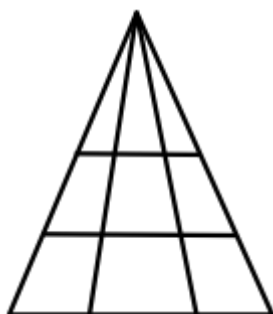
31. David has ten dollars, Richard has two dollars more than David, George has two five dollars notes and Peter has three dollars more than George. Who among them has the most dollars?

- | | |
|------------|-----------|
| a. Richard | b. George |
| c. Peter | d. David |

32. Complete the second pair in the same way as the first pair:



33. How many triangles are there in the given figure?



- | | |
|-------|-------|
| a. 16 | b. 14 |
| c. 12 | d. 18 |

34. Find the missing number in the following series:
3, 5, 9, 17, 33, ?

- | | |
|-------|-------|
| a. 65 | b. 49 |
| c. 60 | d. 50 |

35. There are four persons viz. Violet, Susan, Mary and Angel. Two persons are taller than Angel. Mary is taller than Violet. Mary is not the tallest. Who among them is the tallest?

- | | |
|-----------|----------|
| a. Violet | b. Mary |
| c. Susan | d. Angel |

36. In a certain code, RABBIT is written as IA, PEACOCK is written as OAE, then COCONUT will be written as:

- | | |
|--------|--------|
| a. OUO | b. OOU |
| c. OUE | d. UOO |

37. Find the next figure in the following pattern:

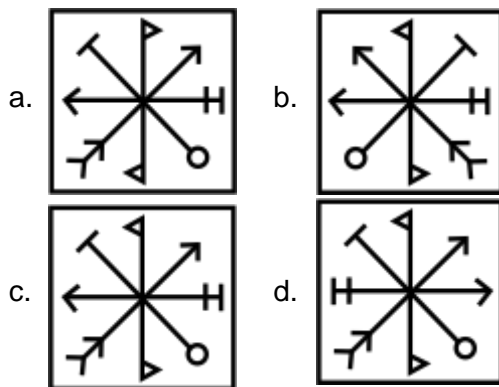
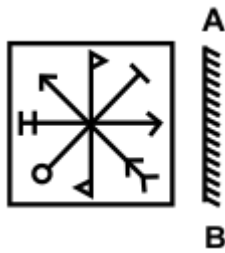


- | | |
|----|----|
| a. | b. |
| c. | d. |

38. Robert's weight is less than that of Sam's weight. Using what measuring unit, they must have calculated their weight?

- | | |
|---------------|----------------|
| a. Kilograms | b. Centimetres |
| c. Kilometres | d. Litre |

39. In the following question, choose the correct mirror image from the alternatives, when mirror is placed on the line AB:



40. A person walks 1 mile to West, turns left and walks 1 mile and turns left and walks 1 mile and again turns left and walks 1 mile. What is the direction he is facing now?

- a. North b. South
c. East d. West

41. In the following question, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose the odd one out:

- a. Rival b. Spouse
c. Partner d. Colleague

42. If all the consonants of the word "DISTRIBUTION" are arranged in alphabetical order from left to right, then which of the following letter will be third from the left end?

- a. T b. S
c. R d. N

43. How many such vowels are there in the word "INTER SCHOOL" which are immediately followed by a consonant?

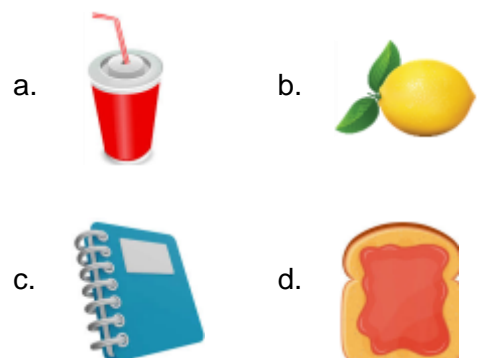
- a. 1 b. 4
c. 2 d. 3

44. The following figure four boxes with different fruits in them. Which of the following fruit is kept in more than two boxes?

Apple Grapes Orange	Orange Mango Apple	Banana Orange Guava	Guava Grapes Mango
Box 1	Box 2	Box 3	Box 4

- a. Orange b. Apple
c. Mango d. Grapes

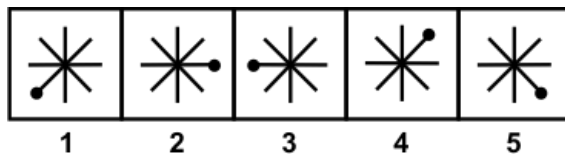
45. Start from the object highlighted in shaded color, first go two blocks east, then go three blocks north, then go one block east. Where do you end up?



46. In a certain code NEST is written as 7126 and STAR is written as 2635. How is EARNs written in that code?

- a. 13527 b. 12357
- c. 73521 d. 13572

47. Find the next element of the following series:

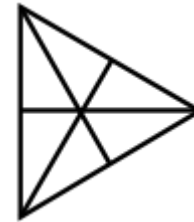


- a.
- b.
- c.
- d.

48. In this question, the first two words given on the left side of :: are related to each other in some way. You have to find the missing word (as represented by ?) which shares the same relationship with the third word. Brazil : South America :: New Zealand : ?

- a. South Australia
- b. South Asia
- c. Australia
- d. Africa

49. How many triangles are there in the following figure?



- a. 14 b. 13
- c. 16 d. 15

50. This question is based on the following information. Six friends viz. Amy, Betty, Cathy, Dolly, Emma and Flora are sitting around a circular table, facing towards the centre. Amy sits third to the right of Betty. Dolly and Cathy are immediate neighbours of Betty. Flora sits third to the right of Cathy.

Who sits second to the left of Emma?

- a. Cannot be determined
- b. Betty
- c. Dolly
- d. Flora

Answer Key

1.	b	2.	a	3.	b	4.	c	5.	b	6.	d	7.	a
8.	d	9.	b	10.	c	11.	a	12.	d	13.	c	14.	a
15.	b	16.	d	17.	d	18.	a	19.	a	20.	c	21.	d
22.	b	23.	b	24.	d	25.	b	26.	a	27.	d	28.	d
29.	c	30.	d	31.	c	32.	c	33.	d	34.	a	35.	c
36.	d	37.	b	38.	a	39.	c	40.	a	41.	a	42.	d
43.	d	44.	a	45.	b	46.	d	47.	b	48.	c	49.	c
50.	d												