

# SCO INTERNATIONAL OLYMPIAD

## CLASS 2 SAMPLE PAPER

### SCO International Mental Ability Olympiad - Class 2

Practice sample paper with answer key and explanations.

**Designed for Class 2 learners with age-fit reasoning, visual patterns, spatial thinking, and problem-solving practice.**

- professionally formatted for conversion and website publishing
- compact question numbering with all figures placed inside question blocks
- clear answer key and explanations for parent, school, and student review

Patterns	Measuring Units	Shapes	Odd One Out	Spatial Skills
Analogy	Ranking	Embedded Figures	Series	

### SCO International Mental Ability Olympiad - Class 2

**Total Questions: 35 | Time: 1 hour | Single correct answer | Calculator not required**

#### Candidate Details

Name: .....

Registration ID: ..... Contact No.: .....

School / Centre: .....

## Section A: General Reasoning

**Q1.** The pattern is red square, blue circle, red square, blue circle, \_\_. What comes next?



A. Red square

B. Blue circle

C. Green triangle

D. Yellow star

**Q2.** Using the ruler picture, which object is the longest?

Each unit = 1 cm



Crayon



4 units

Ruler



7 units

Eraser



2 units

A. Crayon

B. Ruler

C. Eraser

D. All are equal

**Q3.** Choose the odd one out.

A. Tonnes

B. Kilometres

C. Grams

D. Kilograms

**Q4.** Which picture does not belong with the others?

Which does not belong?



A Car



B Bus



C Mango



D Cycle

A. Car

B. Bus

C. Mango

D. Cycle

**Q5.** If the alphabet is written backwards, which letter is in the 25th position?

A. Z

B. Y

C. A

D. B

**Q6.** Form a word from U, L, T, S, O. Which category does it belong to?

A. Flower

B. Fruit

C. Vegetable

D. Vehicle

**Q7.** Which expression does not follow the same +2 pattern?

A.  $20 + 2 = 22$

B.  $22 + 2 = 24$

C.  $24 + 2 = 26$

D.  $26 - 2 = 24$

**Q8.** Complete the shape pattern.



A. Yellow star

B. Purple diamond

C. Blue square

D. Green triangle

**Q9.** Find the missing number: 21, 29, 37, 45, \_\_

A. 51

B. 53

C. 55

D. 59

**Q10. If the day before yesterday was Saturday, then what is today?**

A. Monday

B. Tuesday

C. Wednesday

D. Friday

**Q11. Which option shows a hidden figure idea?**

**Hidden figure options**



A



B



C



D

A. A small figure inside a big figure

B. A number written in a row

C. A list of months

D. A clock face only

**Q12. Which of the following is different from the others?**

A. River

B. Pond

C. Lake

D. Rain

**Q13. Find the missing number: 124, 105, 85, 65, 45, \_\_\_**

A. 44

B. 35

C. 25

D. 55

**Q14. A shape with length, breadth, and height is called a \_\_\_\_.**

A. flat shape

B. solid shape

C. line

D. dot

**Q15. What should be added to 650 ml to make 1 litre?**

A. 250 ml

B. 300 ml

C. 350 ml

D. 450 ml

**Q16.** Which small figure is inside the big circle?



A. Star

B. Square

C. Triangle

D. Rectangle

**Q17.** Using the letters R, I, D, A, F, Y, form a word. Which category does it belong to?

A. Name of a day

B. Name of a month

C. Name of a fruit

D. Name of an animal

**Q18.** Each unit is 4 cm. Which object is longest and by how many units is it longer than the shortest?

Each unit = 4 cm



Bottle  5 units

Cup  2 units

Jar  4 units

A. Bottle; 3 units longer

B. Jar; 2 units longer

C. Cup; 2 units longer

D. Bottle; 12 units longer

**Q19.** In a row of children, Mina is 3rd from the left. There are two children to her right. How many children are in the row?

A. 4

B. 5

C. 6

D. 7

**Q20.** Which grouping can make two groups with one square, one circle, and one triangle in each group?

Six figures



1 Red Square



2 Blue Circle



3 Green Triangle



4 Yellow Square



5 Purple Circle



6 Orange Triangle

A. Group 1: 1,2,3; Group 2: 4,5,6

B. Group 1: 1,4,5; Group 2: 2,3,6

C. Group 1: 1,2,4; Group 2: 3,5,6

D. Group 1: 1,5,4; Group 2: 2,3,6

## Section B: Story and Picture Reasoning

**Q21.** A toy train follows the colour pattern red, green, blue, red, green, blue. What colour is the 8th coach?

A. Red

B. Green

C. Blue

D. Yellow

**Q22.** A classroom shelf has 4 books on the top shelf, 6 books on the middle shelf, and 5 books on the bottom shelf. Which shelf has the most books?

A. Top shelf

B. Middle shelf

C. Bottom shelf

D. All equal

**Q23.** The stars follow blue, green, blue, green, blue, \_\_. What comes next?



1



2



3



4



5



A. Blue star

B. Green star

C. Red star

D. Yellow star

**Q24. A teacher shows a square, a triangle, a rectangle, and a circle. Which one has no corner?**

A. Square

B. Triangle

C. Rectangle

D. Circle

**Q25. Ravi is taller than Sonu. Sonu is taller than Tara. Who is the shortest?**

A. Ravi

B. Sonu

C. Tara

D. Cannot say

**Q26. A pencil is 9 cm long and an eraser is 5 cm long. How much longer is the pencil?**

A. 2 cm

B. 3 cm

C. 4 cm

D. 5 cm

**Q27. Use the race table. Who is the fastest?**

**Race Results**

Runner	Time
Ant	12 s
Bee	8 s
Cat	10 s
Duck	14 s

A. Ant

B. Bee

C. Cat

D. Duck

**Q28. Which word does not belong?**

A. Monday

B. Tuesday

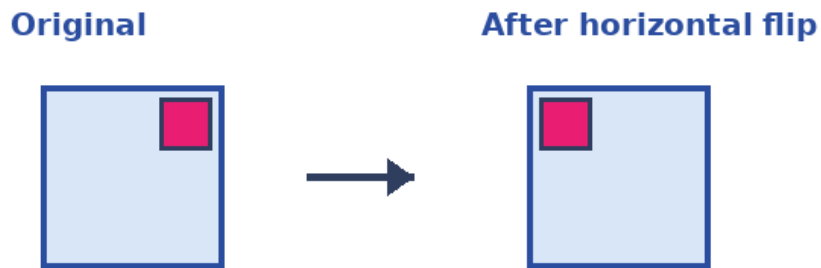
C. January

D. Friday

**Q29.** If a small square is hidden inside a large triangle, what type of reasoning is used?

- |                    |                       |
|--------------------|-----------------------|
| A. Embedded figure | B. Calendar test      |
| C. Weight test     | D. Time sequence only |

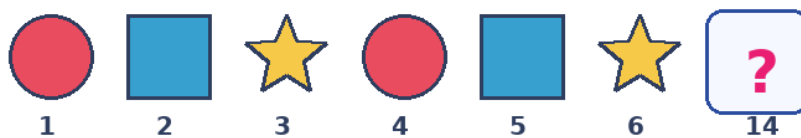
**Q30.** After a horizontal flip, the small square moves from the top-right to which position?



- |                |                 |
|----------------|-----------------|
| A. Top-left    | B. Top-right    |
| C. Bottom-left | D. Bottom-right |

### Section C: Achievers Section

**Q31.** The pattern repeats red circle, blue square, yellow star. Which figure is in the 14th position?



- |                |                   |
|----------------|-------------------|
| A. Red circle  | B. Blue square    |
| C. Yellow star | D. Green triangle |

**Q32.** A jar can hold 1 litre. It already has 600 ml of water. How much more water can be added?

- |           |           |
|-----------|-----------|
| A. 200 ml | B. 300 ml |
| C. 400 ml | D. 600 ml |

**Q33. Which pair shows the same relationship as big red square : small red square?**

A. Big blue circle : small blue circle

B. Big blue circle : small red circle

C. Small square : big triangle

D. Red circle : blue circle

**Q34. A number pattern is 7, 10, 13, 16, \_\_. What is next?**

A. 18

B. 19

C. 20

D. 21

**Q35. Four children stand in this order from left to right: Anu, Ben, Chitra, Dev. Who is second from the right?**

A. Anu

B. Ben

C. Chitra

D. Dev

## Answer Key

Q. No. / Ans.	Q. No. / Ans.	Q. No. / Ans.	Q. No. / Ans.	Q. No. / Ans.
1. A	2. B	3. B	4. C	5. D
6. A	7. D	8. A	9. B	10. A
11. A	12. D	13. C	14. B	15. C
16. A	17. A	18. A	19. B	20. A
21. B	22. B	23. B	24. D	25. C
26. C	27. B	28. C	29. A	30. A
31. B	32. C	33. A	34. B	35. C

## Explanations

### Q1. Answer: A. Red square

The pattern repeats red square, blue circle. After a blue circle, the next figure is a red square.

### Q2. Answer: B. Ruler

The ruler covers 7 units, while the crayon covers 4 units and the eraser covers 3 units. Therefore, the ruler is longest.

### Q3. Answer: B. Kilometres

Tonnes, grams, and kilograms are weight units. Kilometres are used to measure distance.

### Q4. Answer: C. Mango

Car, bus, and cycle are vehicles. Mango is a fruit.

### Q5. Answer: D. B

Backward alphabet starts Z as 1st, Y as 2nd, and ends with B as 25th and A as 26th.

### Q6. Answer: A. Flower

The letters form LOTUS, which is a flower.

### Q7. Answer: D. $26 - 2 = 24$

The first three add 2. The last one subtracts 2, so it is different.

### Q8. Answer: A. Yellow star

The pattern alternates yellow star and purple diamond. After a purple diamond, the next figure is a yellow star.

### Q9. Answer: B. 53

The numbers increase by 8.  $45 + 8 = 53$ .

### Q10. Answer: A. Monday

If the day before yesterday was Saturday, then yesterday was Sunday and today is Monday.

**Q11. Answer: A. A small figure inside a big figure**

Hidden or embedded figures are small figures inside larger figures.

**Q12. Answer: D. Rain**

River, pond, and lake are water bodies. Rain is water falling from clouds.

**Q13. Answer: C. 25**

After 105, the numbers decrease by 20 each time: 105, 85, 65, 45, 25. The first difference is slightly different, so the continuing pattern gives 25.

**Q14. Answer: B. solid shape**

Solid shapes are three-dimensional because they have length, breadth, and height.

**Q15. Answer: C. 350 ml**

1 litre = 1000 ml.  $1000 - 650 = 350$  ml.

**Q16. Answer: A. Star**

The big circle contains a small yellow star.

**Q17. Answer: A. Name of a day**

The letters form FRIDAY, which is the name of a day.

**Q18. Answer: A. Bottle; 3 units longer**

Bottle is 5 units and cup is 2 units. Difference = 3 units.

**Q19. Answer: B. 5**

There are 2 children before Mina, Mina herself, and 2 children after her. Total =  $2 + 1 + 2 = 5$ .

**Q20. Answer: A. Group 1: 1,2,3; Group 2: 4,5,6**

Option A gives Group 1 a square, circle, and triangle, and Group 2 also has a square, circle, and triangle.

**Q21. Answer: B. Green**

The pattern repeats every 3. The 7th coach is red, so the 8th coach is green.

**Q22. Answer: B. Middle shelf**

The middle shelf has 6 books, which is more than 4 and 5.

**Q23. Answer: B. Green star**

The pattern alternates blue and green. After blue comes green.

**Q24. Answer: D. Circle**

A circle has no corners. The other shapes have corners.

**Q25. Answer: C. Tara**

Ravi > Sonu > Tara. Therefore, Tara is the shortest.

**Q26. Answer: C. 4 cm**

$9 - 5 = 4$  cm.

**Q27. Answer: B. Bee**

Bee has the smallest time, 8 seconds, so Bee is fastest.

**Q28. Answer: C. January**

Monday, Tuesday, and Friday are days of the week. January is a month.

**Q29. Answer: A. Embedded figure**

Finding a smaller shape inside a larger shape is an embedded figure task.

**Q30. Answer: A. Top-left**

A horizontal flip changes right to left, so top-right becomes top-left.

**Q31. Answer: B. Blue square**

The pattern repeats every 3. 14 leaves remainder 2 when divided by 3, so the 14th figure is the second item: blue square.

**Q32. Answer: C. 400 ml**

1 litre = 1000 ml.  $1000 - 600 = 400$  ml.

**Q33. Answer: A. Big blue circle : small blue circle**

The relationship keeps the same colour and shape but changes from big to small.

**Q34. Answer: B. 19**

The numbers increase by 3 each time.  $16 + 3 = 19$ .

**Q35. Answer: C. Chitra**

From the right, Dev is first and Chitra is second.