

SCO INTERNATIONAL OLYMPIAD

CLASS 2 QUESTION PAPER

SCO International Mental Ability Olympiad - Class 2

Rebranded official question paper with answer key and explanations.

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

- 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:

Guidelines for the Candidate

1. Fill your personal details on the OMR sheet before the examination begins.
2. There are 35 questions. Attempt all questions. There is no negative marking.
3. Each question has only one correct answer. Choose only one option.
4. Read every pattern, table, figure, or story carefully before answering.
5. Use the rough-work space provided by the invigilator if needed.
6. Return the answer sheet to the invigilator at the end of the test.

Section A: General Reasoning

Q1. Look at the pattern of figures. Which figure should come next?



A. Yellow star

B. Red circle

C. Blue square

D. Green triangle

Q2. A measuring stick has equal parts. Each part is 2 cm. The pencil covers 3 parts and the book covers 5 parts. How many centimetres longer is the book than the pencil?

Each unit = 2 cm



Pencil



Book



A. 2 cm

B. 4 cm

C. 5 cm

D. 10 cm

Q3. Which shape is the odd one out because it has no straight side?



A Triangle



B Square



C Pentagon



D Circle

A. Triangle

B. Square

C. Pentagon

D. Circle

Q4. Which grouping correctly divides the six shapes into two groups so that each group has one circle, one square, and one triangle with three different colours?

Six shapes for grouping



1 Red Circle



2 Blue Square



3 Green Triangle



4 Blue Circle



5 Green Square



6 Red Triangle

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

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

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

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

Q5. A small square is drawn inside a large rectangle. If the whole rectangle is moved to another place, what happens to the small square?



A. It stays fixed on the table

B. It moves with the rectangle and stays inside it

C. It changes into a circle

D. It disappears

Q6. Complete the figure pattern shown below.



A. Red triangle

B. Blue circle

C. Yellow star

D. Green square

Q7. Which of the following is NOT usually used to measure weight?

A. Kilogram

B. Gram

C. Litre

D. Milligram

Q8. Rina places three cards in a row. The star is to the left of the square. The circle is to the right of the square. Which card is in the middle?

A. Star

B. Square

C. Circle

D. Triangle

Q9. Complete the analogy: Big blue circle is to small blue circle as big red triangle is to ____.

A. Small red triangle

B. Small blue triangle

C. Big red circle

D. Small red square

Q10. Four children finished a race. Nia took 14 seconds, Omar took 11 seconds, Pia took 16 seconds, and Dev took 10 seconds. Who was the fastest?

A. Nia

B. Omar

C. Pia

D. Dev

Q11. A balloon pattern is red, blue, red, blue, red, blue. What is the colour of the 7th balloon?

A. Red

B. Blue

C. Green

D. Yellow

Q12. Which object is most likely measured in centimetres?

A. Length of a pencil

B. Weight of a school bag

C. Water in a bucket

D. Time taken to run

Q13. Which item is different from the others?

A. Car

B. Bus

C. Bicycle

D. Mango

Q14. Find the missing number: 2, 4, 6, 8, ___

A. 9

B. 10

C. 12

D. 14

Q15. Which shape has no corner?

A. Square

B. Triangle

C. Rectangle

D. Circle

Q16. Which small figure is embedded inside the large square?



A. Circle

B. Triangle

C. Star

D. Rectangle

Q17. Tom is facing North. He turns to his right. Which direction is he facing now?

A. East

B. West

C. South

D. North

Q18. If today is Monday, what day will be the day after tomorrow?

A. Tuesday

B. Wednesday

C. Thursday

D. Friday

Q19. Apple, banana, and orange belong to one group. Which word belongs to the same group?

A. Mango

B. Chair

C. Pencil

D. Shoes

Q20. The red dot moves left, middle, right, middle, and then _____. Which position comes next?



A. Left

B. Middle

C. Right

D. Top

Section B: Story and Picture Reasoning

Q21. Maya sees flowers in a garden: red, blue, yellow, red, blue, yellow, red, ___. What colour is the 8th flower?



A. Red

B. Blue

C. Yellow

D. Green

Q22. A picnic ruler has star units. Each unit is 3 cm. The sandwich is 5 units, the apple is 3 units, and the cookie is 4 units. Which item is longest and by how many units is it longer than the shortest?

Each unit = 3 cm



Sandwich  5 units

Apple  3 units

Cookie  4 units

A. Sandwich; 2 units longer

B. Cookie; 1 unit longer

C. Apple; 2 units longer

D. Sandwich; 6 units longer

Q23. At a shape stall, the teacher shows a square, an equilateral triangle, a regular pentagon, and a rectangle. Which shape is odd when comparing regular polygons?

A. Square

B. Equilateral triangle

C. Regular pentagon

D. Rectangle

Q24. Mia must form two groups from the paintings. Each group must have one circle, one square, and one triangle. Which grouping works?

Paintings in the art gallery



1 Red Circle



2 Blue Square



3 Green Triangle



4 Yellow Circle



5 Purple Square



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

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

Q25. A treasure map shows a big golden star with a small blue circle inside it. The next clue says a big silver moon hides a small blue star. What small shape should be inside the silver moon?



A. Small silver star

B. Small blue moon

C. Small silver circle

D. Small blue star

Q26. Four children stand in a line. A is at the extreme left. C stands to the right of D and to the left of B. Which child is first from the left?

A. A

B. B

C. C

D. D

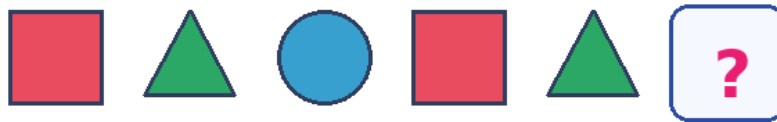
Q27. A large box has a small triangle drawn inside it. Which idea is being tested?

- | | |
|-----------------------|-------------------|
| A. Embedded figure | B. Calendar |
| C. Weight measurement | D. Alphabet order |

Q28. A table shows lengths: Crayon 4 units, Ruler 7 units, Notebook 9 units, Eraser 3 units. Which is longest, and how many units longer is it than the shortest?

- | | |
|-----------------------------|--------------------------|
| A. Notebook; 6 units longer | B. Ruler; 4 units longer |
| C. Notebook; 5 units longer | D. Crayon; 1 unit longer |

Q29. Look at the shape series: square, triangle, circle, square, triangle, _____. What comes next?



- | | |
|-------------|-----------|
| A. Circle | B. Square |
| C. Triangle | D. Star |

Q30. Which rule correctly groups the figures shown?

Size and shape grouping



- | | |
|------------------------|-------------------|
| A. By shape or by size | B. By month name |
| C. By day of week | D. By weight only |

Section C: Achievers Section

Q31. A tower window pattern repeats: red circle, blue square, green triangle, yellow star. What is the 17th window?



A. Red circle

B. Blue square

C. Green triangle

D. Yellow star

Q32. A ribbon is 1 metre long. Riya uses 40 cm of it. How many centimetres are left?

A. 40 cm

B. 50 cm

C. 60 cm

D. 100 cm

Q33. A pattern follows this rule: add 3 each time. The numbers are 11, 14, 17, 20, __. What is next?

A. 21

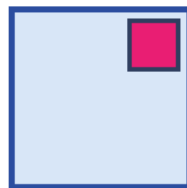
B. 22

C. 23

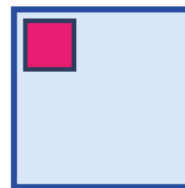
D. 24

Q34. A small purple square is in the top-right corner of a large blue square. After a horizontal flip, where will the small square appear?

Original



After horizontal flip



A. Top-left corner

B. Top-right corner

C. Bottom-left corner

D. Bottom-right corner

Q35. Use the race table. Which animal is fastest, and by how many seconds is it faster than the slowest?

Race Results

Runner	Time
Rabbit	10 s
Turtle	15 s
Fox	9 s
Snail	20 s

A. Fox; 11 seconds faster

B. Rabbit; 10 seconds faster

C. Fox; 9 seconds faster

D. Turtle; 5 seconds faster

Answer Key

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

Explanations

Q1. Answer: A. Yellow star

The figures repeat in the order red circle, blue square, green triangle, yellow star. After the green triangle, the next figure is the yellow star.

Q2. Answer: B. 4 cm

The book is 5 parts and the pencil is 3 parts. The difference is 2 parts. Each part is 2 cm, so $2 \times 2 = 4$ cm.

Q3. Answer: D. Circle

A triangle, square, and pentagon have straight sides. A circle has no straight side, so it is different.

Q4. Answer: A. Group 1: 1,2,3; Group 2: 4,5,6

Group 1 has a red circle, blue square, and green triangle. Group 2 has a blue circle, green square, and red triangle. Both groups satisfy the shape and colour conditions.

Q5. Answer: B. It moves with the rectangle and stays inside it

The small square is part of the drawing on the rectangle. When the rectangle moves, the embedded square moves with it.

Q6. Answer: A. Red triangle

The pattern alternates red triangle, blue circle. After a blue circle, the next figure is a red triangle.

Q7. Answer: C. Litre

Kilogram, gram, and milligram are units of weight or mass. Litre is used to measure capacity or volume.

Q8. Answer: B. Square

The order is star, square, circle. Therefore, the square is in the middle.

Q9. Answer: A. Small red triangle

The first pair keeps the same shape and colour but changes the size to small. Therefore, big red triangle becomes small red triangle.

Q10. Answer: D. Dev

In a race, the smaller time is faster. Dev took 10 seconds, which is the least time.

Q11. Answer: A. Red

The pattern repeats every 2 balloons. Odd positions are red, so the 7th balloon is red.

Q12. Answer: A. Length of a pencil

Centimetres are used to measure length. A pencil length is a good example.

Q13. Answer: D. Mango

Car, bus, and bicycle are vehicles. Mango is a fruit, so it is different.

Q14. Answer: B. 10

The numbers increase by 2 each time. After 8 comes 10.

Q15. Answer: D. Circle

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

Q16. Answer: B. Triangle

The large square contains a small triangle at the centre.

Q17. Answer: A. East

When a person facing North turns right, the person faces East.

Q18. Answer: B. Wednesday

Tomorrow is Tuesday, so the day after tomorrow is Wednesday.

Q19. Answer: A. Mango

Apple, banana, orange, and mango are all fruits.

Q20. Answer: A. Left

The dot moves left, middle, right, middle, and then returns to left.

Q21. Answer: B. Blue

The pattern repeats red, blue, yellow. The 8th flower is the second colour in the cycle, which is blue.

Q22. Answer: A. Sandwich; 2 units longer

The sandwich is 5 units and the apple is 3 units. The sandwich is longest and is $5 - 3 = 2$ units longer than the shortest.

Q23. Answer: D. Rectangle

A regular polygon has all sides and angles equal. A rectangle does not usually have all sides equal, so it is the odd one out.

Q24. Answer: A. Group 1: 1,2,3; Group 2: 4,5,6

Option A gives each group one circle, one square, and one triangle. It also keeps colours different within each group.

Q25. Answer: D. Small blue star

The clue says the colour of the small hidden shape remains blue, and the hidden shape changes to a star. Therefore, it is a small blue star.

Q26. Answer: A. A

The statement directly says that A is at the extreme left, so A is first from the left.

Q27. Answer: A. Embedded figure

An embedded figure means a smaller figure is hidden or placed inside a larger figure.

Q28. Answer: A. Notebook; 6 units longer

Notebook is 9 units and eraser is 3 units. Difference = $9 - 3 = 6$ units.

Q29. Answer: A. Circle

The sequence repeats square, triangle, circle. After square and triangle, the next shape is circle.

Q30. Answer: A. By shape or by size

The figures can be grouped by shape, such as circles and squares, or by size, such as small and big.

Q31. Answer: A. Red circle

The pattern repeats every 4. Since 17 leaves remainder 1 when divided by 4, the 17th window is the first item: red circle.

Q32. Answer: C. 60 cm

1 metre = 100 cm. If 40 cm is used, $100 - 40 = 60$ cm are left.

Q33. Answer: C. 23

The numbers increase by 3. After 20 comes 23.

Q34. Answer: A. Top-left corner

A horizontal flip changes right to left but keeps top as top. So the top-right square moves to the top-left corner.

Q35. Answer: A. Fox; 11 seconds faster

The fastest time is the smallest: Fox at 9 seconds. The slowest is Snail at 20 seconds. Difference = $20 - 9 = 11$ seconds.