

SOF IMO Class 2 sample paper

Maths Olympiad practice • 35 questions • about 40 minutes • with hints and explanations • talyzo.in

How to use this paper. Sit with your child and let them try each question before you show the hint. Read the explanation together even when they get it right. No timer the first time through. A hint, the answer and a full explanation for every question are in the key at the end.

Section A

Q1. What number lies between 612 and 622?

- (A) 610
- (B) 615
- (C) 625
- (D) 630

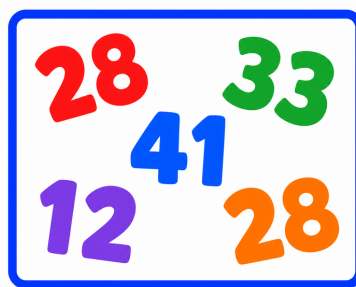
Q2. Which of the following is equal to $4 + 12 + 9$?

- (A) $16 + 9$
- (B) $25 - 5$
- (C) $20 + 10$
- (D) $24 + 3$

Q3. Which option is same as two hundred?

- (A) 2 tens 10 ones
- (B) 10 tens 10 tens
- (C) 1 tens 20 ones
- (D) 0 tens 200 ones

Q4. Find out the sum of the numbers given inside the rectangle.



- (A) 150
- (B) 142
- (C) 138
- (D) 155

Q5. A spider has 8 legs. How many legs do 5 spiders have?

- (A) 35
- (B) 40
- (C) 45
- (D) 32

Q6. Which one of the following is correct for 728?

- (A) 7 hundreds + 2 tens + 8 ones
- (B) 8 hundreds + 2 tens + 7 ones
- (C) 7 hundreds + 8 tens + 2 ones
- (D) 2 hundreds + 7 tens + 8 ones

Q7. $4 \times 2 \times 6 = ?$

- (A) 48
- (B) 42
- (C) 52
- (D) 36

Q8. 60 has the same value as:

- (A) $30 + 20$
- (B) $40 + 30$
- (C) $30 + 30$
- (D) $50 + 20$

Q9. Select the correct option to fill in the blank. $8 \times 5 = \dots + 5 + 5 + 5 + 5 + 5 + 5 + 5$

- (A) 5
- (B) 8
- (C) 40
- (D) 35

Q10. Fill in the blank. 40 multiplied by 10 is 4 multiplied by 100.

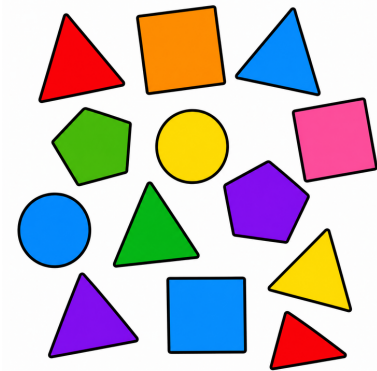
- (A) greater than
- (B) lesser than
- (C) equal to
- (D) the half of

Q11. How many corners does this shape have?



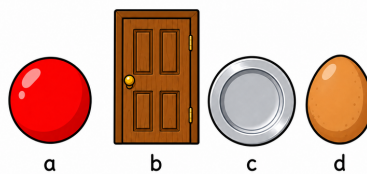
- (A) 4
- (B) 6
- (C) 8
- (D) 5

Q12. How many triangles are there in the below image?



- (A) 3
- (B) 4
- (C) 5
- (D) 6

Q13. Which of the following has the shape of a rectangle?



- (A) ball
- (B) door
- (C) plate
- (D) egg

Q14. The weight of a watermelon can be measured in:

- (A) cm
- (B) ml
- (C) kg
- (D) km

Q15. 180 seconds is equal to:

- (A) 2 minutes
- (B) 2 minutes 30 seconds
- (C) 3 minutes
- (D) None of these

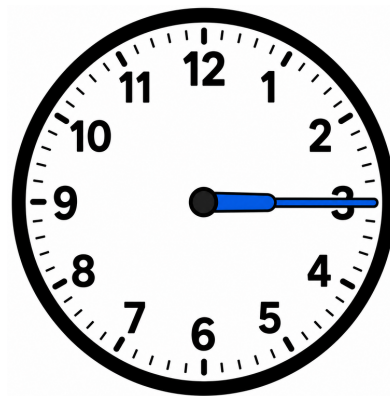
Q16. Ravi's piano class starts at 3:00 p.m. and finishes at 4:30 p.m. How long does he learn piano?

- (A) One hour
- (B) One hour 30 minutes
- (C) Two hours
- (D) Half an hour

Q17. Which is the smallest?

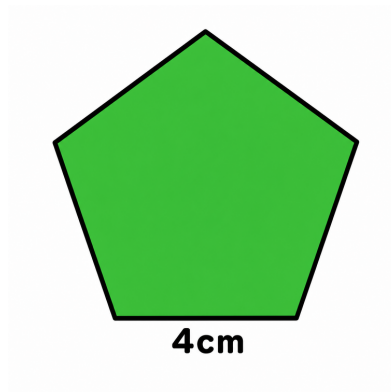
- (A) 5 cm
- (B) 50 cm
- (C) 15 cm
- (D) 25 cm

Q18. What time does the clock show in the figure below?



- (A) 3:30
- (B) 3:00
- (C) 2:00
- (D) 3:15

Q19. Each side of the given figure is 4 cm long. What is the length of wire needed to form this figure?

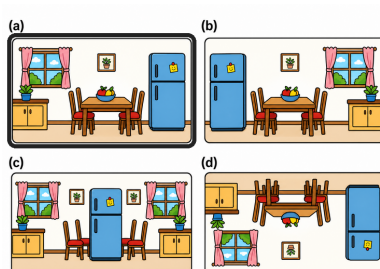


- (A) 20 cm
- (B) 24 cm
- (C) 28 cm
- (D) 16 cm

Q20. ₹ 100 note is equal to ₹ 10 notes.

- (A) Five
- (B) Eight
- (C) Ten
- (D) Twenty

Q21. Find the mirror image for the following image:



- (A) Option (a)
- (B) Option (b)
- (C) Option (c)
- (D) Option (d)

Q22. What is the total amount of money shown below?



- (A) ₹ 120
- (B) ₹ 100
- (C) ₹ 150
- (D) ₹ 80

Q23. Priya has 4 coins of ₹ 5 and 2 coins of ₹ 1. How much money does Priya have?

- (A) ₹ 22
- (B) ₹ 18
- (C) ₹ 15
- (D) ₹ 20

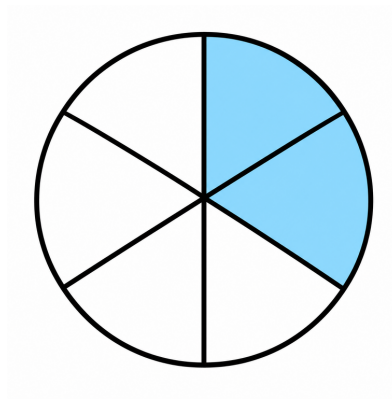
Q24. What is the numerator of the fraction $\frac{2}{9}$?

- (A) 9
- (B) 2
- (C) Both (a) and (b)
- (D) 1

Q25. The denominator of a fraction is 4. What can be the possible fraction?

- (A) $\frac{4}{3}$
- (B) $\frac{3}{4}$
- (C) $\frac{1}{3}$
- (D) $\frac{5}{2}$

Q26. What fraction of the given shape is shaded?



- (A) $\frac{2}{6}$
- (B) $\frac{4}{6}$
- (C) $\frac{1}{6}$
- (D) $\frac{3}{6}$

Q27. Complete the below number pattern. 5, 9, 14,, 27, 35

- (A) 17
- (B) 18
- (C) 20
- (D) 21

Q28. Complete the analogy given below: CAT : 030120 :: DOG : ?

- (A) 041507
- (B) 051406
- (C) 031507
- (D) 041608

Q29. Which team scored the maximum points? Direction (Q. 29 to 30): Read the following data carefully and choose the best option. | Teams | A | B | C | D | |---|---|---|---|---| | Points | 45 | 32 | 50 | 28 |

- (A) Team A
- (B) Team B
- (C) Team C
- (D) Team D

Q30. What is the difference between the points scored by Team A and Team D?

- (A) 13
- (B) 17
- (C) 18
- (D) 15

Achievers section

Q31. Which one of the following is true for 84?

- (A) 8 tens + 4 ones
- (B) 8 tens + 4 tens
- (C) 4 tens + 4 ones
- (D) 4 tens + 8 ones

Q32. Anju has a basket that contains red, blue and green apples as shown below. What fraction of the total apples are red?



- (A) $\frac{4}{10}$
- (B) $\frac{3}{10}$
- (C) $\frac{5}{10}$
- (D) $\frac{2}{10}$

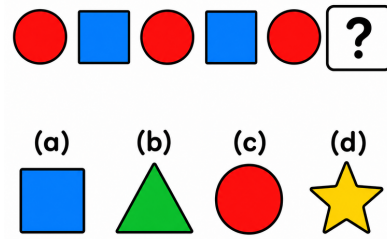
Q33. Meera spent half an hour in the library. She spent another 1 hour in the garden. She came out of the garden at 15 minutes past 3 p.m. At what time was she in the library?

- (A) 2:15 p.m.
- (B) 1:45 p.m.
- (C) 2:30 p.m.
- (D) 1:30 p.m.

Q34. A fraction has 3 as numerator and 6 as denominator. It means that whole part is:

- (A) divided into 3 parts and 6 parts are taken
- (B) divided into 6 parts and 3 parts are taken
- (C) not divided into equal parts
- (D) only divided in 3 parts

Q35. Complete the following pattern. Look at the image below and choose the correct option.



- (A) Square (blue)
- (B) Triangle (green)
- (C) Circle (red)
- (D) Star (yellow)

Answer key, hints & explanations

Q1. Hint: A number between two numbers is bigger than the first and smaller than the second. Which option is more than 612 and less than 622?

Answer: B) 615. 615 is greater than 612 and less than 622, so it lies between them.

Q2. Hint: First add the three numbers to find the total. Then work out each option and see which one makes the same total.

Answer: A) $16 + 9$. $4 + 12 + 9 = 25$ and $16 + 9$ also equals 25, so they are the same.

Q3. Hint: Two hundred is 200. Remember that 10 tens make 100. Work out what each option comes to.

Answer: B) 10 tens 10 tens. $10 \text{ tens} + 10 \text{ tens} = 100 + 100 = 200$, which equals two hundred.

Q4. Hint: Add the five numbers one step at a time. Adding them in pairs first can make it easier to keep track.

Answer: B) 142. Adding all the numbers inside the rectangle: $28 + 33 + 41 + 12 + 28 = 142$.

Q5. Hint: Five spiders, each with 8 legs. Add 8 five times, or count in eights: 8, 16, 24...

Answer: B) 40. Each spider has 8 legs, so 5 spiders have $5 \times 8 = 40$ legs.

Q6. Hint: Split 728 into hundreds, tens and ones. Which digit sits in each place?

Answer: A) 7 hundreds + 2 tens + 8 ones. 728 means 7 hundreds, 2 tens and 8 ones, so $700 + 20 + 8 = 728$.

Q7. Hint: Do it in two steps. Multiply the first two numbers, then multiply that answer by the last number.

Answer: A) 48. $4 \times 2 = 8$ and $8 \times 6 = 48$.

Q8. Hint: Add each pair and check which one comes to exactly 60.

Answer: C) $30 + 30$. $30 + 30 = 60$, which is the same as 60.

Q9. Hint: 8×5 means eight 5s added together. Count how many 5s are already shown after the blank, then work out what is left.

Answer: A) 5. 8×5 means eight 5s, which is 40. After the blank there are seven 5s (35). So the blank is $40 - 35 = 5$.

Q10. Hint: Work out both sides. What is 40×10 ? What is 4×100 ? Then compare them.

Answer: C) equal to. $40 \times 10 = 400$ and $4 \times 100 = 400$, so both are equal.

Q11. Hint: Corners are the points where two sides meet. Trace the shape with your finger and count each point.

Answer: A) 4. A rectangle has 4 corners.

Q12. Hint: Look carefully - some triangles are tucked between the others. Count slowly so you do not miss any.

Answer: D) 6. Count the triangles carefully. There are 6 triangles in the image.

Q13. Hint: Think about which object has straight sides and square corners, like a book.

Answer: B) door. A door has a rectangular shape.

Q14. Hint: Weight is how heavy something is. Which unit do we use for heavy things - the same one we use for vegetables at the market?

Answer: C) kg. Weight is measured in kilograms (kg), and a watermelon is measured in kg.

Q15. Hint: Remember 1 minute = 60 seconds. How many 60s fit into 180?

Answer: C) 3 minutes. 1 minute = 60 seconds, so $180 / 60 = 3$ minutes.

Q16. Hint: Count on from 3:00. How far is it to 4:00, and then to 4:30?

Answer: B) One hour 30 minutes. From 3:00 p.m. to 4:30 p.m. is 1 hour and 30 minutes.

Q17. Hint: All the lengths are in cm, so just compare the numbers. Which number is the smallest?

Answer: A) 5 cm. 5 cm is the smallest length among the given options.

Q18. Hint: Look at where the short hand (hour) points, and where the long hand (minute) points.

Answer: B) 3:00. The short hour hand points to 3 and the long minute hand points to 12, so the time is 3 o'clock (3:00).

Q19. Hint: First count how many sides the shape has. Then add the 4 cm for each side.

Answer: A) 20 cm. A pentagon has 5 sides. Each side is 4 cm, so $5 \times 4 = 20$ cm of wire is needed.

Q20. Hint: How many Rs 10 notes make Rs 100? Count in tens up to 100.

Answer: C) Ten. $100 \div 10 = 10$, so ₹ 100 equals ten ₹ 10 notes.

Q21. Hint: A mirror image is flipped left-to-right, as if you held it up to a mirror. Which option is the exact reflection?

Answer: A) Option (a). A mirror image is the exact reflection of the original image flipped horizontally.

Q22. Hint: Count how many coins there are and what each one is worth, then add them up.

Answer: A) ₹ 120. Adding the coins shown in the image gives ₹ 120.

Q23. Hint: Work out the Rs 5 coins together, then the Rs 1 coins, then add the two amounts.

Answer: A) ₹ 22. $4 \times ₹ 5 = ₹ 20$ and $2 \times ₹ 1 = ₹ 2$, so total = ₹ 20 + ₹ 2 = ₹ 22.

Q24. Hint: The numerator is the top number of a fraction. Which number is on top in $\frac{2}{9}$?

Answer: B) 2. In the fraction $\frac{2}{9}$, the top number 2 is called the numerator.

Q25. Hint: The denominator is the bottom number. Which option has 4 on the bottom?

Answer: B) $\frac{3}{4}$. In $\frac{3}{4}$, the bottom number (denominator) is 4, which matches the question.

Q26. Hint: Count the total number of equal parts, then count how many are shaded.

Answer: A) $\frac{2}{6}$. Out of 6 equal parts, 2 parts are shaded, so the fraction is $\frac{2}{6}$.

Q27. Hint: Look at how much is added each step: 5 to 9, then 9 to 14... does the jump grow each time?

Answer: C) 20. The pattern adds 4, then 5, then 6, then 7, then 8. So $5+4=9$, $9+5=14$, $14+6=20$, $20+7=27$, $27+8=35$. The missing number is 20.

Q28. Hint: Each letter is swapped for its position in the alphabet (A=1, B=2...). Find the positions of D, O and G.

Answer: A) 041507. Each letter is replaced by its position in the alphabet. D=4, O=15, G=7, so DOG = 041507.

Q29. Hint: Compare the points for each team. Which number is the biggest?

Answer: C) Team C. Team C scored 50 points which is the highest among all teams.

Q30. Hint: Find Team A's points and Team D's points, then take the smaller away from the bigger.

Answer: B) 17. Team A scored 45 and Team D scored 28, so $45 - 28 = 17$.

Q31. Hint: Split 84 into tens and ones. How many tens and how many ones?

Answer: A) 8 tens + 4 ones. 84 means 8 tens and 4 ones, which is $80 + 4 = 84$.

Q32. Hint: Count the total number of apples first, then count only the red ones.

Answer: A) $\frac{4}{10}$. Count the total apples and the red apples. 4 out of 10 apples are red, so the fraction is $\frac{4}{10}$.

Q33. Hint: Add up the time she spent altogether, then count back from when she came out.

Answer: B) 1:45 p.m.. Total time spent = 1 hour + 30 minutes = 1 hour 30 minutes. She came out at 3:15 p.m., so she started at $3:15 - 1:30 = 1:45$ p.m.

Q34. Hint: The bottom number tells how many equal parts the whole is cut into; the top number tells how many are taken.

Answer: B) divided into 6 parts and 3 parts are taken. The denominator 6 means the whole is divided into 6 equal parts, and the numerator 3 means 3 parts are taken.

Q35. Hint: Find the part of the pattern that keeps repeating, then see which shape comes next.

Answer: A) Square (blue). The pattern repeats circle (red) and square (blue). After circle, the next shape is

square (blue).

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