

## SMETA MATHEMATICS OLYMPIAD

## Question Paper — Grade 7-8

Total Questions: 25 · Time: 60 minutes · Max Marks: 100

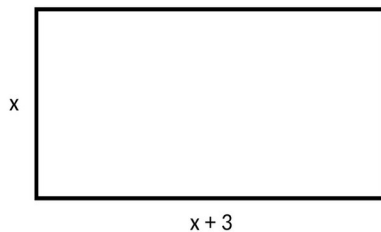
**Instructions:**

Read each question carefully. Each question has four options (A, B, C, D). Choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. The temperature in Curitiba was  $-4^{\circ}\text{C}$  in the early morning and rose to  $9^{\circ}\text{C}$  by the afternoon. What is the difference between the afternoon and morning temperatures?

- A)  $13^{\circ}\text{C}$
- B)  $16^{\circ}\text{C}$
- C)  $19^{\circ}\text{C}$
- D)  $22^{\circ}\text{C}$

2. The diagram shows a rectangle with width  $x$  cm and length  $(x + 3)$  cm. Which expression represents the perimeter of the rectangle, in centimetres?



- A)  $2x + 3$
- B)  $3x + 3$
- C)  $3x + 6$
- D)  $4x + 6$

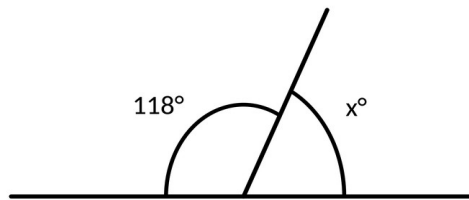
3. What is the value of  $3^2 \times 3^3$ ?

- A) 81
- B) 162
- C) 243
- D) 729

4. Solve for  $x$ :  $x + 15 = 32$

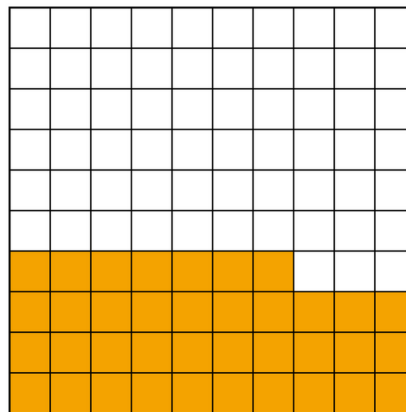
- A) 2
- B) 9
- C) 14
- D) 17

5. In the diagram, two angles lie on a straight line. One angle measures  $118^\circ$ . What is the measure of angle  $x$ ?



- A)  $62^\circ$
- B)  $72^\circ$
- C)  $90^\circ$
- D)  $110^\circ$

6. The grid below is divided into 100 equal squares. What percentage of the grid is shaded?

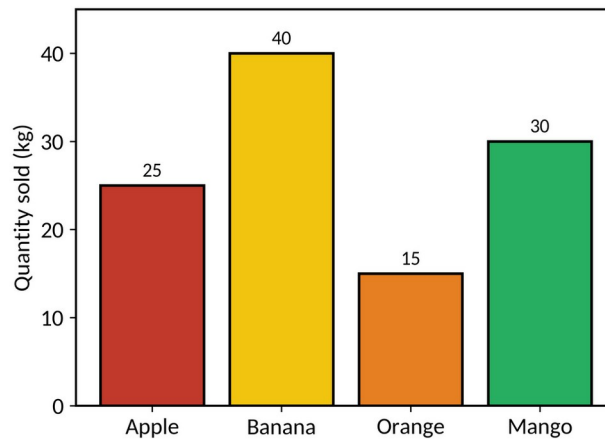


- A) 27%
- B) 37%
- C) 47%
- D) 63%

7. Sofia scored 78, 84, 90, 72, and 86 in five mathematics tests. What is her mean score?

- A) 79
- B) 80
- C) 82
- D) 85

8. The bar graph shows the quantity of fruit (in kilograms) sold by a market stall in one week. How many more kilograms of Banana were sold than Orange?

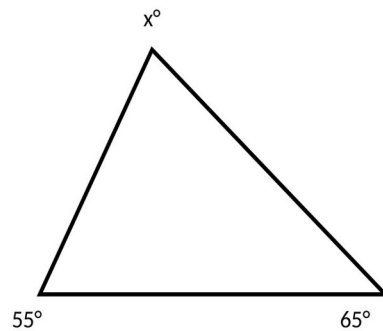


- A) 15 kg
- B) 18 kg
- C) 20 kg
- D) 25 kg

9. Find the next number in the pattern: 4, 9, 16, 25, \_\_\_\_

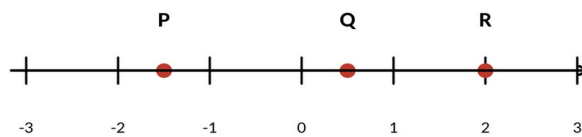
- A) 36
- B) 40
- C) 42
- D) 49

10. In the diagram, two angles of a triangle are given. What is the measure of angle  $x$ ?



- A)  $50^\circ$
- B)  $55^\circ$
- C)  $60^\circ$
- D)  $65^\circ$

11. On the number line, which point represents the rational number 2?



- A) P
- B) Q
- C) R
- D) None of these

12. Sofia bought 2.75 kg of rice and  $1\frac{1}{4}$  kg of beans. What is the total weight she bought, in kilograms?

- A) 3.00 kg
- B) 3.50 kg
- C) 3.75 kg
- D) 4.00 kg

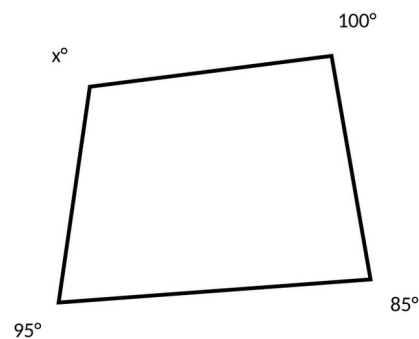
13. Simplify:  $(a^3 \times a^2) \div a^4$

- A)  $a$
- B)  $a^2$
- C)  $a^3$
- D)  $a^4$

14. Factorize completely:  $x^2 + 7x + 12$

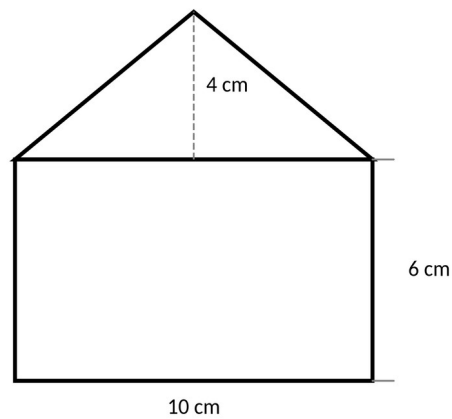
- A)  $(x + 1)(x + 12)$
- B)  $(x + 3)(x + 4)$
- C)  $(x + 2)(x + 6)$
- D)  $(x - 3)(x - 4)$

15. The diagram shows a quadrilateral with three known angles. What is the measure of angle  $x$ ?



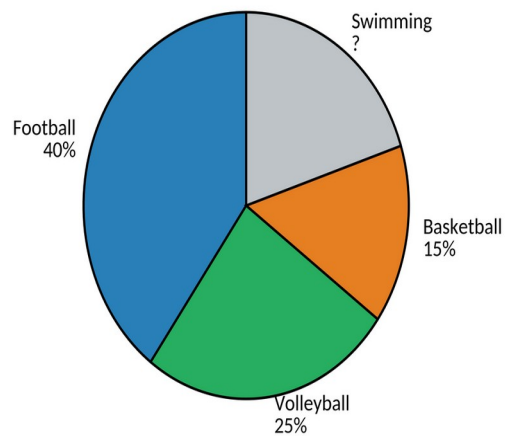
- A)  $70^\circ$
- B)  $75^\circ$
- C)  $80^\circ$
- D)  $90^\circ$

16. The diagram shows a rectangle with a triangle attached on top, forming a composite shape. Find the total area of the shape.



- A)  $50 \text{ cm}^2$
- B)  $60 \text{ cm}^2$
- C)  $70 \text{ cm}^2$
- D)  $80 \text{ cm}^2$

17. The pie chart shows the favorite sports of the students in a class. What percentage of students chose Swimming?



- A) 20%
- B) 22%
- C) 30%
- D) 35%

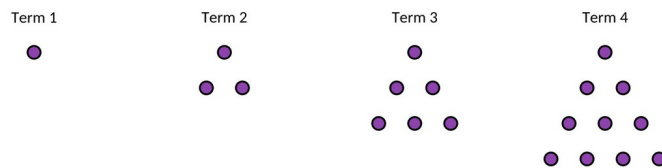
18. Lucas bought a bicycle for \$450 and sold it for \$540. What was his profit percentage?

- A) 10%
- B) 20%
- C) 25%
- D) 30%

19. Find the median of the following data set: 12, 7, 15, 9, 21, 7, 18

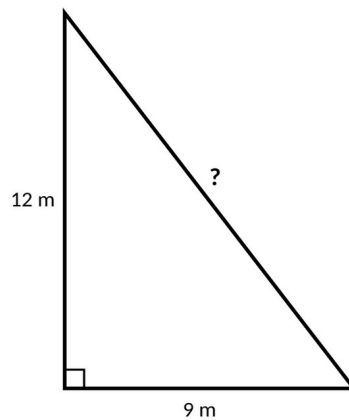
- A) 9
- B) 10
- C) 12
- D) 15

20. The diagram shows a pattern of triangular arrangements of dots for the first four terms. Following the pattern, how many dots will be in the 5th term?



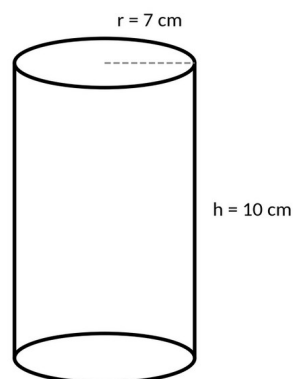
- A) 10
- B) 12
- C) 13
- D) 15

21. A ladder leans against a wall, as shown in the diagram. The base of the ladder is 9 m from the wall, and it reaches 12 m up the wall. What is the length of the ladder?



- A) 15 m
- B) 17 m
- C) 19 m
- D) 21 m

22. The diagram shows a cylindrical water tank. Using  $\pi = 22/7$ , calculate its volume.



- A)  $1100 \text{ cm}^3$
- B)  $1540 \text{ cm}^3$
- C)  $1760 \text{ cm}^3$
- D)  $2200 \text{ cm}^3$

23. The sum of the ages of Sofia and her brother Lucas is 34 years. Sofia is 6 years older than Lucas. How old is Lucas?

- A) 10
- B) 12
- C) 14
- D) 20

24. A bag contains 5 red marbles, 3 blue marbles, and 2 green marbles. If one marble is drawn at random, what is the probability that it is NOT blue?

- A)  $\frac{1}{5}$
- B)  $\frac{3}{10}$
- C)  $\frac{1}{2}$
- D)  $\frac{7}{10}$

25. Look at the sequence: 2, 6, 12, 20, 30, \_\_\_\_\_. What is the next number?

- A) 42
- B) 45
- C) 48
- D) 50

## Answer Key

SMETA Mathematics Olympiad · Grade 7-8

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| 1. <b>A</b>  | 2. <b>D</b>  | 3. <b>C</b>  | 4. <b>D</b>  | 5. <b>A</b>  |
| 6. <b>B</b>  | 7. <b>C</b>  | 8. <b>D</b>  | 9. <b>A</b>  | 10. <b>C</b> |
| 11. <b>C</b> | 12. <b>D</b> | 13. <b>A</b> | 14. <b>B</b> | 15. <b>C</b> |
| 16. <b>D</b> | 17. <b>A</b> | 18. <b>B</b> | 19. <b>C</b> | 20. <b>D</b> |
| 21. <b>A</b> | 22. <b>B</b> | 23. <b>C</b> | 24. <b>D</b> | 25. <b>A</b> |

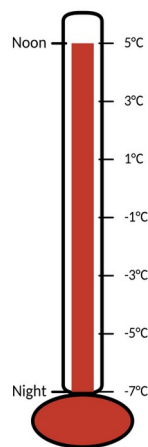
**SMETA MATHEMATICS OLYMPIAD****Question Paper — Grade 7-8**

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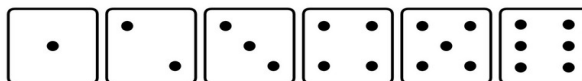
Read each question carefully. Each question has four options (A, B, C, D). Choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. The diagram shows a thermometer with the temperature recorded at night and at noon in Petrópolis. What is the difference between the noon and night temperatures?



- A) 12°C
- B) 14°C
- C) 16°C
- D) 18°C

2. The diagram shows the six possible outcomes when a fair six-sided die is rolled once. What is the probability of rolling a number greater than 4?



- A) 1/6
- B) 1/3
- C) 1/2
- D) 2/3

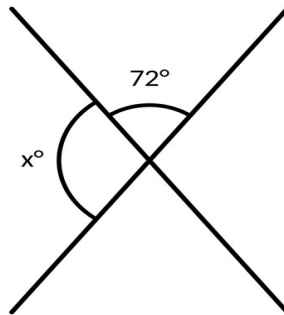
3. What is the value of  $2^4 \times 2^2$ ?

- A) 16
- B) 32
- C) 64
- D) 128

4. Solve for x:  $x - 8 = 15$

- A) 5
- B) 14
- C) 20
- D) 23

5. In the diagram, two straight lines intersect. One angle measures  $72^\circ$ . What is the measure of the adjacent angle x?



- A)  $108^\circ$
- B)  $118^\circ$
- C)  $144^\circ$
- D)  $162^\circ$

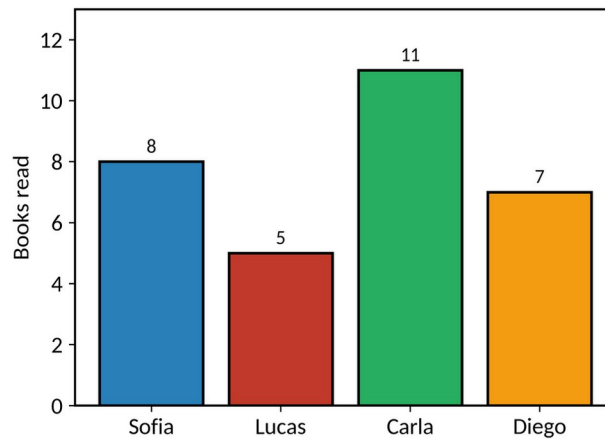
6. 35% of the 80 students in a school choir also play an instrument. How many students play an instrument?

- A) 24
- B) 28
- C) 32
- D) 36

7. The rainfall (in mm) recorded over five days was: 12, 18, 9, 15, 21. What is the mean rainfall?

- A) 11
- B) 13
- C) 15
- D) 17

8. The bar graph shows the number of books read last month by four students. How many more books did Carla read than Lucas?

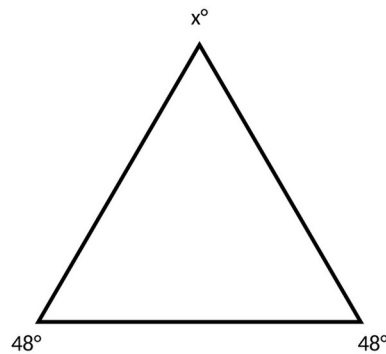


- A) 3
- B) 4
- C) 5
- D) 6

9. Find the next number in the pattern: 5, 11, 17, 23, \_\_\_\_

- A) 29
- B) 31
- C) 35
- D) 41

10. The diagram shows an isosceles triangle with two equal base angles of  $48^\circ$ . What is the measure of angle  $x$ ?



- A)  $42^\circ$   
B)  $84^\circ$   
C)  $90^\circ$   
D)  $96^\circ$
11. On the number line, which point represents the greatest rational number?



- A) A  
B) B  
C) C  
D) None of these
12. Sofia spent \$12.50 on notebooks and \$8.75 on pens. How much did she spend in total?
- A) \$18.00  
B) \$19.50  
C) \$20.00  
D) \$21.25

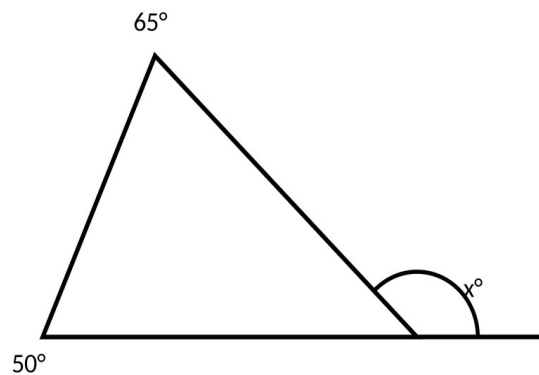
13. Simplify:  $(2^3)^2 \div 2^4$

- A) 4
- B) 8
- C) 16
- D) 32

14. Solve for x:  $3x + 7 = 25$

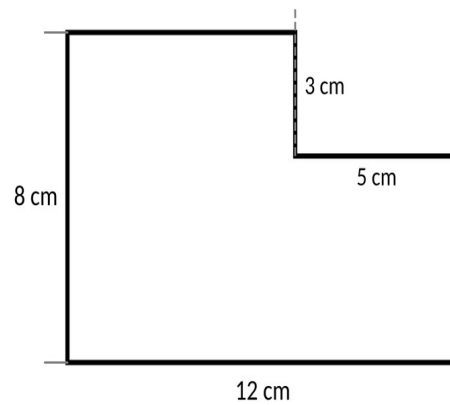
- A) 3
- B) 6
- C) 9
- D) 12

15. In the diagram, the side of a triangle is extended to form an exterior angle x. The two remote interior angles are  $50^\circ$  and  $65^\circ$ . What is the measure of angle x?



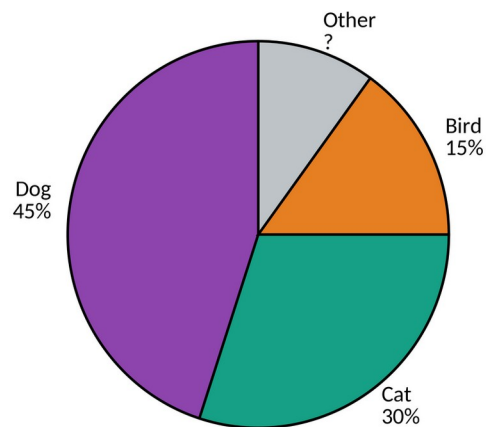
- A)  $95^\circ$
- B)  $105^\circ$
- C)  $115^\circ$
- D)  $125^\circ$

16. The diagram shows an L-shaped piece of land. Find its total area.



- A)  $60 \text{ cm}^2$
- B)  $70 \text{ cm}^2$
- C)  $75 \text{ cm}^2$
- D)  $81 \text{ cm}^2$

17. The pie chart shows the favorite pets of students in a class. What percentage of students chose Other?



- A) 10%
- B) 12%
- C) 18%
- D) 22%

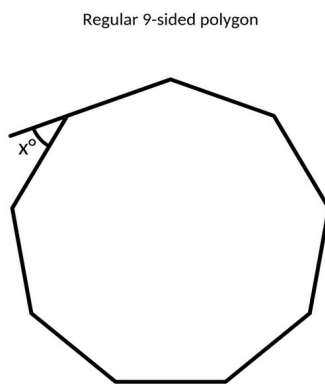
18. In a class, the ratio of boys to girls is 3:5. If there are 40 students in total, how many are girls?

- A) 15
- B) 25
- C) 30
- D) 35

19. Find the mode of the following data set: 7, 9, 7, 12, 15, 7, 9

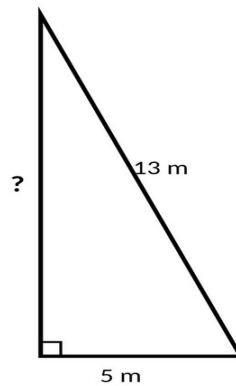
- A) 5
- B) 6
- C) 7
- D) 9

20. The diagram shows a regular 9-sided polygon (nonagon) with one exterior angle marked. What is the measure of angle  $x$ ?



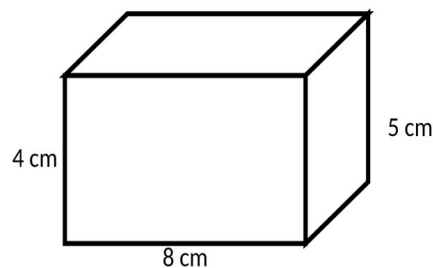
- A)  $24^\circ$
- B)  $30^\circ$
- C)  $36^\circ$
- D)  $40^\circ$

21. The diagram shows a right triangle with a hypotenuse of 13 m and one leg of 5 m. What is the length of the other leg?



- A) 12 m
- B) 14 m
- C) 16 m
- D) 18 m

22. The diagram shows a cuboid with length 8 cm, width 5 cm, and height 4 cm. Find its total surface area.

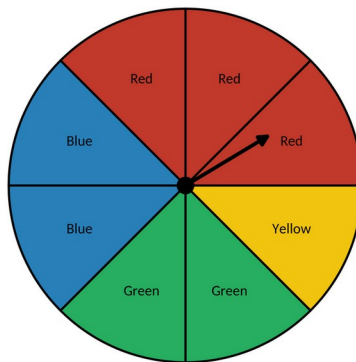


- A)  $160 \text{ cm}^2$
- B)  $184 \text{ cm}^2$
- C)  $200 \text{ cm}^2$
- D)  $220 \text{ cm}^2$

23. The sum of two consecutive even numbers is 74. What is the larger number?

- A) 34
- B) 36
- C) 38
- D) 40

24. The spinner shown is divided into 8 equal sectors: 3 red, 2 blue, 2 green, and 1 yellow. If the spinner is spun once, what is the probability that it lands on blue or green?



- A)  $\frac{1}{8}$
- B)  $\frac{1}{4}$
- C)  $\frac{3}{8}$
- D)  $\frac{1}{2}$

25. Look at the sequence: 3, 7, 15, 31, 63, \_\_\_\_\_. What is the next number?

- A) 127
- B) 128
- C) 130
- D) 135

## Answer Key

SMETA Mathematics Olympiad · Grade 7-8

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| 1. <b>A</b>  | 2. <b>B</b>  | 3. <b>C</b>  | 4. <b>D</b>  | 5. <b>A</b>  |
| 6. <b>B</b>  | 7. <b>C</b>  | 8. <b>D</b>  | 9. <b>A</b>  | 10. <b>B</b> |
| 11. <b>C</b> | 12. <b>D</b> | 13. <b>A</b> | 14. <b>B</b> | 15. <b>C</b> |
| 16. <b>D</b> | 17. <b>A</b> | 18. <b>B</b> | 19. <b>C</b> | 20. <b>D</b> |
| 21. <b>A</b> | 22. <b>B</b> | 23. <b>C</b> | 24. <b>D</b> | 25. <b>A</b> |

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## Question Paper — Grade 7-8

Total Questions: 25 · Time: 60 minutes · Max Marks: 100

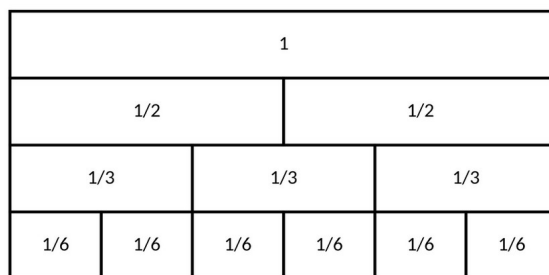
**Instructions:**

Read each question carefully. Each question has four options (A, B, C, D). Choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. Which of the following numbers is the smallest? -12, -5, 3, -1

- A) -12
- B) -5
- C) -1
- D) 3

2. Using the fraction wall shown, which fraction is equivalent to  $\frac{4}{6}$ ?



- A)  $\frac{1}{2}$
- B)  $\frac{2}{3}$
- C)  $\frac{3}{4}$
- D)  $\frac{5}{6}$

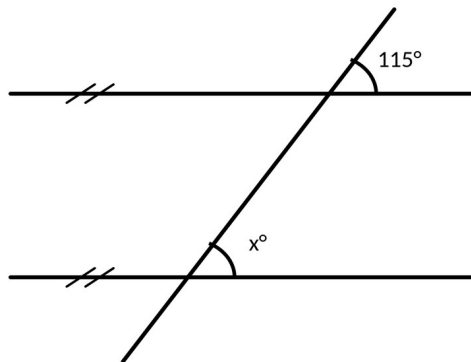
3. Simplify:  $6^2 \div 6$

- A) 3
- B) 4
- C) 6
- D) 9

4. Solve for  $x$ :  $5x = 45$

- A) 3
- B) 5
- C) 7
- D) 9

5. In the diagram, two parallel lines are cut by a transversal. One angle measures  $115^\circ$ . What is the measure of the corresponding angle  $x$ ?



- A)  $115^\circ$
- B)  $125^\circ$
- C)  $135^\circ$
- D)  $145^\circ$

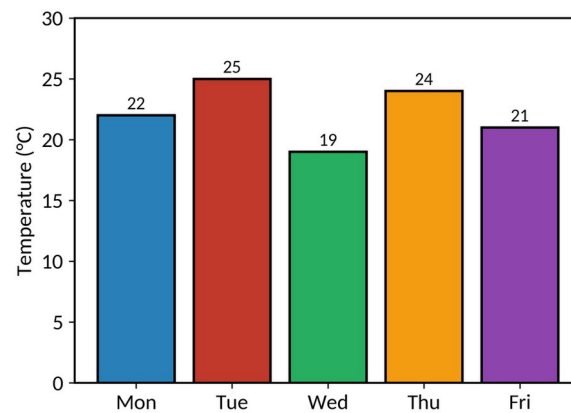
6. What is 45% of 220?

- A) 88
- B) 99
- C) 108
- D) 121

7. Find the range of the following data set: 14, 8, 21, 5, 17

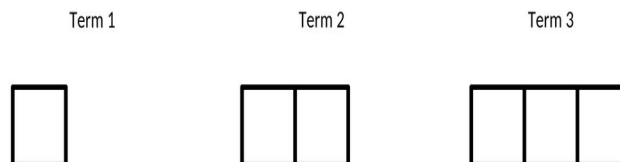
- A) 11
- B) 13
- C) 16
- D) 19

8. The bar graph shows the temperature recorded on five days. How many degrees warmer was Tuesday than Wednesday?



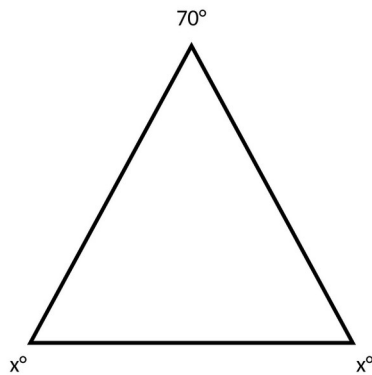
- A) 3
- B) 4
- C) 5
- D) 6

9. The diagram shows a pattern of squares made from matchsticks for the first three terms. Following the pattern, how many matchsticks are needed for the 5th term?



- A) 16
- B) 19
- C) 22
- D) 25

10. The diagram shows an isosceles triangle with a vertex angle of  $70^\circ$ . What is the measure of each base angle  $x$ ?

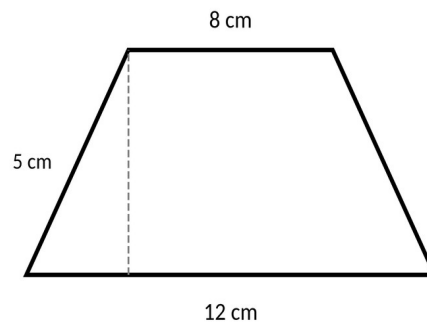


- A)  $50^\circ$
  - B)  $55^\circ$
  - C)  $60^\circ$
  - D)  $65^\circ$
11. Evaluate:  $-\frac{3}{4} + \frac{1}{2}$
- A)  $-\frac{3}{4}$
  - B)  $-\frac{1}{2}$
  - C)  $-\frac{1}{4}$
  - D)  $\frac{1}{4}$
12. Convert 0.35 to a percentage.
- A) 15%
  - B) 25%
  - C) 30%
  - D) 35%
13. Simplify:  $2^{-2} \times 2^5$
- A) 8
  - B) 16
  - C) 32
  - D) 64

14. Solve for  $x$ :  $x/3 + 4 = 9$

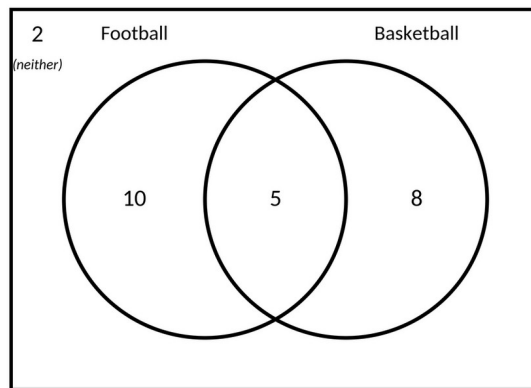
- A) 12
- B) 15
- C) 18
- D) 21

15. The diagram shows a trapezium with parallel sides 8 cm and 12 cm, and height 5 cm. Find its area.



- A)  $40 \text{ cm}^2$
- B)  $45 \text{ cm}^2$
- C)  $50 \text{ cm}^2$
- D)  $60 \text{ cm}^2$

16. The Venn diagram shows the number of students who play football and basketball. How many students play only one of the two sports?



- A) 12
- B) 15
- C) 16
- D) 18

17. The frequency table shows students' test scores. How many students scored 80 or above?

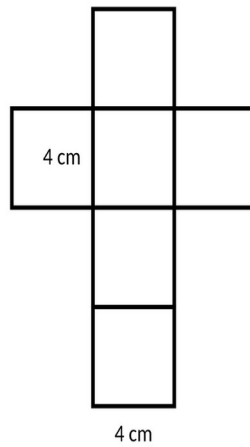
| Score Range | Frequency |
|-------------|-----------|
| 60-69       | 4         |
| 70-79       | 9         |
| 80-89       | 11        |
| 90-99       | 6         |

- A) 17
- B) 19
- C) 20
- D) 23

18. Sofia deposited \$800 in a savings account with a simple interest rate of 5% per year. How much interest will she earn after 3 years?

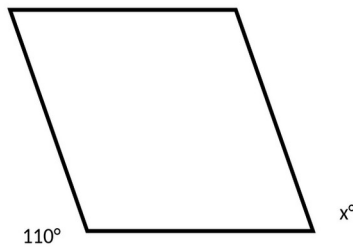
- A) \$100
- B) \$120
- C) \$140
- D) \$160

19. The diagram shows the net of a cube with each edge 4 cm. What is the total surface area of the cube?



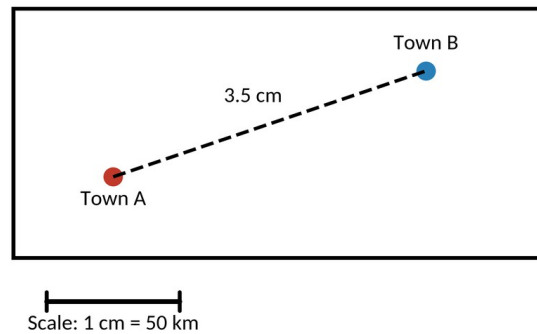
- A)  $80 \text{ cm}^2$
- B)  $88 \text{ cm}^2$
- C)  $96 \text{ cm}^2$
- D)  $104 \text{ cm}^2$

20. In the rhombus shown, one angle measures  $110^\circ$ . What is the measure of the adjacent angle  $x$ ?



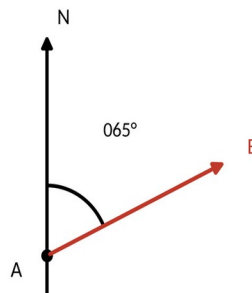
- A)  $50^\circ$
- B)  $60^\circ$
- C)  $65^\circ$
- D)  $70^\circ$

21. The map shows the distance between Town A and Town B as 3.5 cm. Using the scale 1 cm = 50 km, find the actual distance between the towns.



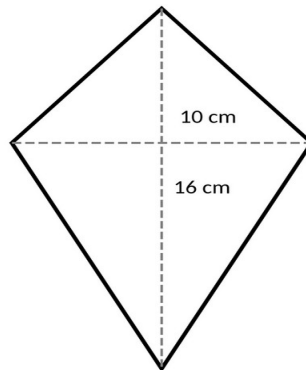
- A) 175 km
- B) 200 km
- C) 225 km
- D) 250 km

22. Point B is on a bearing of  $065^\circ$  from point A. What is the bearing of point A from point B (the back bearing)?



- A)  $115^\circ$
- B)  $245^\circ$
- C)  $270^\circ$
- D)  $295^\circ$

23. The diagram shows a kite with diagonals 16 cm and 10 cm. Find its area.



- A)  $64 \text{ cm}^2$
- B)  $72 \text{ cm}^2$
- C)  $80 \text{ cm}^2$
- D)  $96 \text{ cm}^2$

24. Twice a number decreased by 7 is equal to 3 times the number decreased by 15. Find the number.

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

25. Look at the sequence: 2, 5, 11, 23, 47, \_\_\_\_\_. What is the next number?

- A) 95
- B) 96
- C) 98
- D) 101

## Answer Key

SMETA Mathematics Olympiad · Grade 7-8

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| 1. <b>A</b>  | 2. <b>B</b>  | 3. <b>C</b>  | 4. <b>D</b>  | 5. <b>A</b>  |
| 6. <b>B</b>  | 7. <b>C</b>  | 8. <b>D</b>  | 9. <b>A</b>  | 10. <b>B</b> |
| 11. <b>C</b> | 12. <b>D</b> | 13. <b>A</b> | 14. <b>B</b> | 15. <b>C</b> |
| 16. <b>D</b> | 17. <b>A</b> | 18. <b>B</b> | 19. <b>C</b> | 20. <b>D</b> |
| 21. <b>A</b> | 22. <b>B</b> | 23. <b>C</b> | 24. <b>D</b> | 25. <b>A</b> |

**SMETA MATHEMATICS OLYMPIAD****Question Paper — Grade 7-8**

Total Questions: 25 · Time: 60 minutes · Max Marks: 100

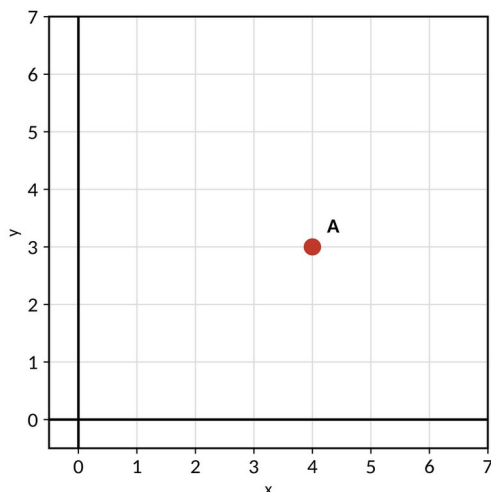
**Instructions:**

Read each question carefully. Each question has four options (A, B, C, D). Choose only one correct answer. Use a pencil or a blue/black pen. No calculators are allowed. All the best!

1. Which of the following is a prime number?

- A) 29
- B) 33
- C) 41
- D) 47

2. What are the coordinates of point A shown on the grid?



- A) (2, 5)
- B) (4, 3)
- C) (4, 6)
- D) (6, 2)

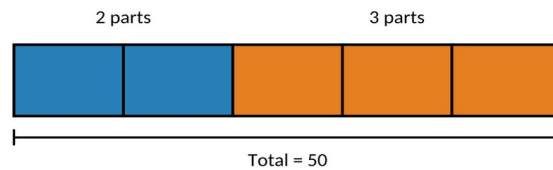
3. What is the value of  $4^3$ ?

- A) 16
- B) 32
- C) 64
- D) 128

4. Solve for  $x$ :  $x - 9 = 14$

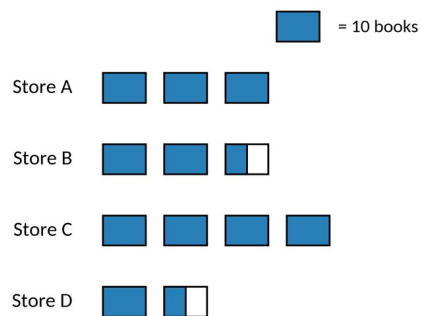
- A) 5
- B) 14
- C) 19
- D) 23

5. The bar model shows a ratio of 2:3 with a total of 50. What is the value of the larger part?



- A) 30
- B) 35
- C) 40
- D) 45

6. The pictograph shows the number of books sold by four stores, where each icon represents 10 books. How many books did Store C sell?

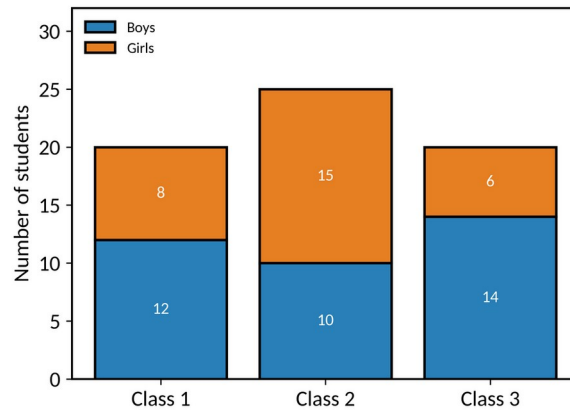


- A) 25
- B) 40
- C) 50
- D) 60

7. Find the mode of the following data set: 4, 7, 4, 9, 7, 4, 2

- A) 2
- B) 4
- C) 7
- D) 9

8. The stacked bar chart shows the number of boys and girls in three classes. What is the total number of students in Class 2?



- A) 18
- B) 20
- C) 25
- D) 28

9. The grid shown is a magic square, where every row, column, and diagonal adds up to the same total. What number replaces the question mark?

|   |   |   |
|---|---|---|
| 4 | 9 | 2 |
| 3 | 5 | 7 |
| 8 | 1 | ? |

- A) 6
- B) 7
- C) 8
- D) 9

10. What is the sum of the interior angles of a regular hexagon?

- A)  $540^\circ$
- B)  $720^\circ$
- C)  $900^\circ$
- D)  $1000^\circ$

11. Which of the following is the greatest?

- A)  $\frac{3}{5}$
- B) 0.65
- C)  $\frac{7}{10}$
- D)  $\frac{3}{4}$

12. What is  $\frac{2}{5}$  of 60?

- A) 18
- B) 20
- C) 24
- D) 28

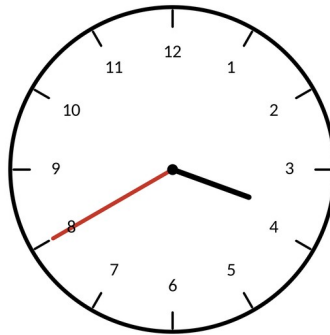
13. Simplify:  $(3^2)^3$

- A) 729
- B) 900
- C) 1024
- D) 2187

14. Solve for x:  $4x - 5 = 19$

- A) 4
- B) 6
- C) 8
- D) 10

15. The clock shown reads 3:40. What is the angle between the hour hand and the minute hand?



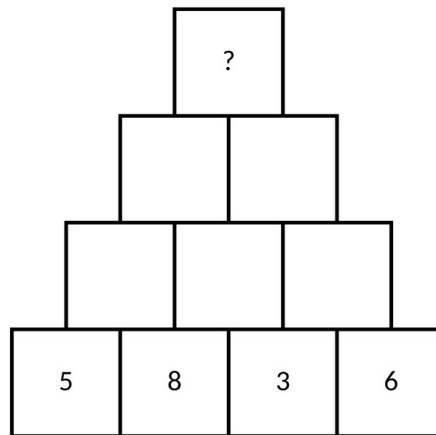
- A)  $110^\circ$
- B)  $120^\circ$
- C)  $130^\circ$
- D)  $140^\circ$

16. In the cipher table, each letter is shifted 3 places forward in the alphabet ( $A \rightarrow D$ ,  $B \rightarrow E$ , and so on, wrapping around at Z). Using this rule, what does the code "FDW" decode to?

|        |   |   |   |   |   |   |     |   |   |   |   |
|--------|---|---|---|---|---|---|-----|---|---|---|---|
| Letter | A | B | C | D | E | F | ... | W | X | Y | Z |
| Code   | D | E | F | G | H | I | ... | Z | A | B | C |

- A) BAT
- B) CAP
- C) CAR
- D) CAT

17. In the number pyramid, each block is the sum of the two blocks directly below it. Using the bottom row shown, what number goes at the top?



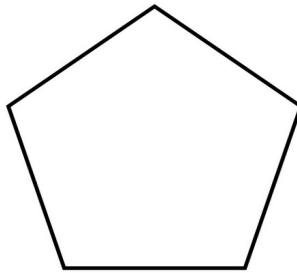
- A) 44
- B) 48
- C) 52
- D) 56

18. A shirt originally priced at \$40 is on sale with a 25% discount. What is the sale price?

- A) \$25
- B) \$30
- C) \$32
- D) \$35

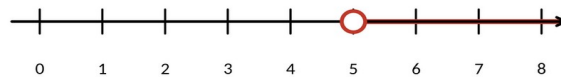
19. The diagram shows a regular pentagon. What is the measure of each interior angle?

Regular pentagon



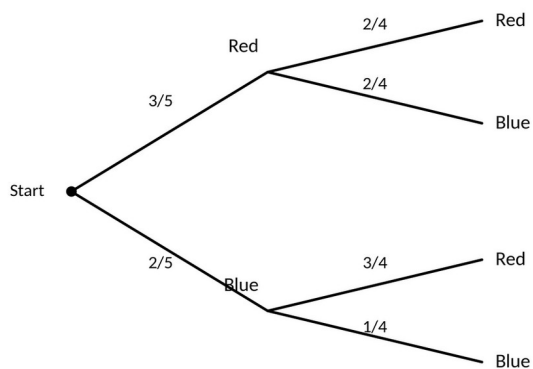
- A)  $90^\circ$
- B)  $100^\circ$
- C)  $108^\circ$
- D)  $120^\circ$

20. The number line shows the solution to an inequality. Which inequality is represented?



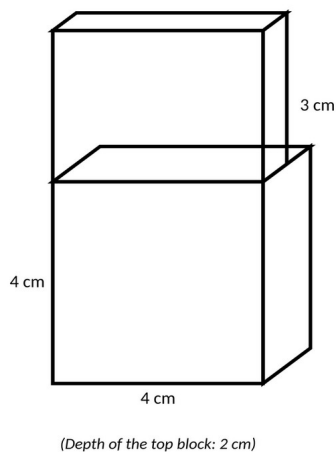
- A)  $x > 1$
- B)  $x > 2$
- C)  $x > 3$
- D)  $x > 5$

21. A bag contains 3 red marbles and 2 blue marbles. Using the tree diagram, find the probability of drawing two red marbles in a row without replacement.



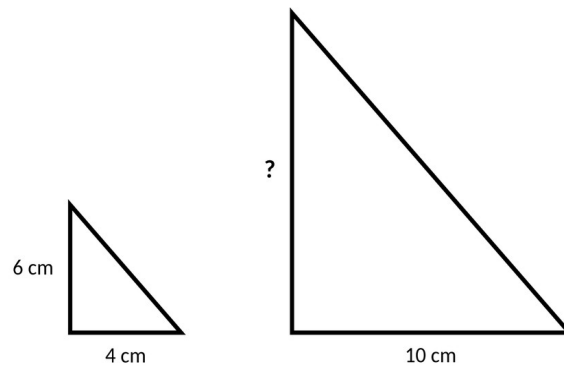
- A)  $3/10$
- B)  $2/5$
- C)  $1/2$
- D)  $3/5$

22. The diagram shows a solid made of a cube and a cuboid stacked on top of each other. Find the total volume of the solid.



- A)  $80 \text{ cm}^3$
- B)  $88 \text{ cm}^3$
- C)  $96 \text{ cm}^3$
- D)  $104 \text{ cm}^3$

23. The two triangles shown are similar. Find the length of the unknown side marked with a question mark.



- A) 11 cm
- B) 13 cm
- C) 15 cm
- D) 18 cm

24. The perimeter of a rectangle is 54 cm. If the length is 3 cm more than twice the width, find the width.

- A) 5 cm
- B) 6 cm
- C) 7 cm
- D) 8 cm

25. Look at the sequence: 100, 91, 83, 76, \_\_\_\_\_. What is the next number?

- A) 65
- B) 68
- C) 72
- D) 75

## Answer Key

SMETA Mathematics Olympiad · Grade 7-8

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| 1. <b>A</b>  | 2. <b>B</b>  | 3. <b>C</b>  | 4. <b>D</b>  | 5. <b>A</b>  |
| 6. <b>B</b>  | 7. <b>B</b>  | 8. <b>C</b>  | 9. <b>A</b>  | 10. <b>B</b> |
| 11. <b>D</b> | 12. <b>C</b> | 13. <b>A</b> | 14. <b>B</b> | 15. <b>C</b> |
| 16. <b>D</b> | 17. <b>A</b> | 18. <b>B</b> | 19. <b>C</b> | 20. <b>D</b> |
| 21. <b>A</b> | 22. <b>B</b> | 23. <b>C</b> | 24. <b>D</b> | 25. <b>A</b> |