



UNICUS  
OLYMPIADS

#UnicusIsUnique

## Sample Paper



**Class 5**

## Unicus Mathematics Olympiad (UMO)

Time: 60 minutes

Pattern and Marking Scheme			
Section	Total Questions	Marks per Question	Total Marks
Classic Section	30	1	30
Scholar Section	10	2	20
Grand Total	40		50

**Classic Section (Each Question is 1 Mark)**

1. Fill in the blank:

$$7857 - 1256 = \underline{\hspace{2cm}} + 3780$$

- a. 3790
  - b. 2821
  - c. 1980
  - d. 1289
- 

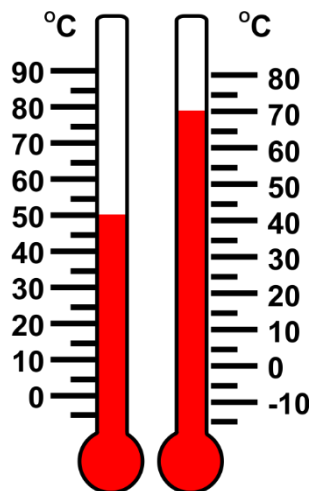
2. The height of Sarah is twice the height of her sister. If her sister's height is 74 cm, then what is Sarah's height?

- a. 138 cm
  - b. 148 cm
  - c. 158 cm
  - d. 168 cm
- 

3. Jasmine bought a pair of socks for \$70 and a pair of gloves for \$120. If she gives \$200 to the shopkeeper, then how much money will she get back?

- a. \$5
  - b. \$10
  - c. \$15
  - d. \$20
- 

4. What is the difference in the temperatures shown in the thermometers?



- a. 10°C
  - b. 20°C
  - c. 30°C
  - d. 40°C
- 

5. Which of these is an equilateral triangle?

- a.  $110^\circ + 60^\circ + 10^\circ$
  - b.  $60^\circ + 60^\circ + 60^\circ$
  - c.  $40^\circ + 60^\circ + 80^\circ$
  - d.  $80^\circ + 50^\circ + 50^\circ$
-





## Unicus Mathematics Olympiad (UMO)

17. The total strength of a class is 36 students. If three-fourths of the students are taking an examination from the class, then how many students are not taking the examination?

- a. 9  
c. 24
- b. 12  
d. 27
- 

18. Smallest 6-digit number formed by using 5, 0, 3, 2, 6, 1 using each digit once is:

- a. 032615  
c. 102365
- b. 102356  
d. 012356
- 

19. If Peter buys 7 pens every day, how many pens will he buy in the month of January?

- a. 210  
c. 196
- b. 217  
d. 203
- 

20. 600 candles need to be packed in boxes of 30 each. How many boxes will be needed?

- a. 30  
c. 20
- b. 25  
d. 15
- 

21. Henry has four times the amount of money that Andrew has. If Andrew has \$575 with him, what is the amount of money that Henry has?

- a. \$2180  
c. \$2270
- b. \$2220  
d. \$2300
- 

22. John bought 5 shirts and 7 pairs of trousers at the cost of \$230 and \$310 each respectively. How much money did he pay at the shop?

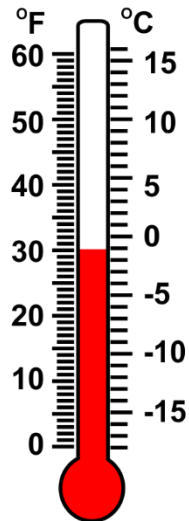
- a. \$3080  
c. \$3320
- b. \$3120  
d. \$3520
- 

23. A train departed at 8:20 a.m. from the station on Saturday to reach its destination in 26 hours and 35 minutes. On which day and at what time will it reach its destination?

- a. Saturday, 10:55 a.m.  
c. Sunday, 10:55 a.m.
- b. Saturday, 10:55 p.m.  
d. Sunday, 10:55 p.m.
-

**Unicus Mathematics Olympiad (UMO)**

**24.** Sophie wants to bake a cake at four times of the temperature as shown in the thermometer. At what temperature will she bake the cake?



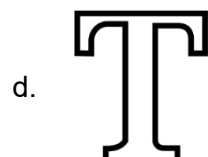
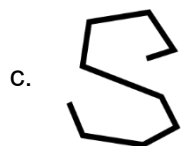
- a. 90°F
- b. 100°F
- c. 120°F
- d. 150°F

**25.** Which shape is absent in the picture?



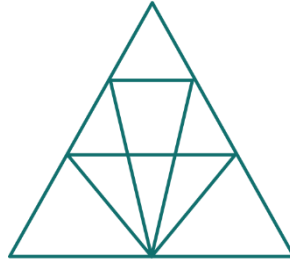
- a. Rectangle
- b. Triangle
- c. Circle
- d. Pentagon

**26.** Which of the following is a closed figure?



## Unicus Mathematics Olympiad (UMO)

27. Find the number of triangles in the given figure.



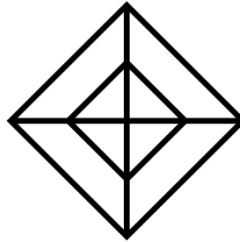
- a. 18  
c. 24
- b. 20  
d. 30

28. Fill in the blank:

Roman numeral for 472 is \_\_\_\_\_

- a. CDLXII  
c. CDLXXII
- b. CDLXX  
d. CDLXIII

29. Count the number of triangles in the picture:



- a. 12  
c. 20
- b. 16  
d. 22

30. Joseph makes 5 rounds of a rectangular field of dimensions 15 m × 9 m. Find the total distance covered by him:

- a. 48 m  
c. 240 m
- b. 96 m  
d. 280 m

### Scholar Section (Each Question is 2 Marks)

31. Which of the following statements is incorrect?

- A. 4 thousands 7 hundreds 3 tens and 4 ones is 4734  
B. The smallest 4-digit number formed using the digits 0, 1, 6 and 7 without repeating the digits is 1076  
C. The place value of 3 in the number 1378 is 300  
D. 2180 is an even number

- a. A  
c. C
- b. B  
d. D





## Unicus Mathematics Olympiad (UMO)

37. Rachel purchased 5 L coke bottle to serve to her guests. If there were 7 guests and she served 250 mL of coke to each guest, then how much coke was left in the bottle?

- a. 2 L 500 mL  
 b. 2 L 750 mL  
 c. 3 L 250 mL  
 d. 3 L 750 mL

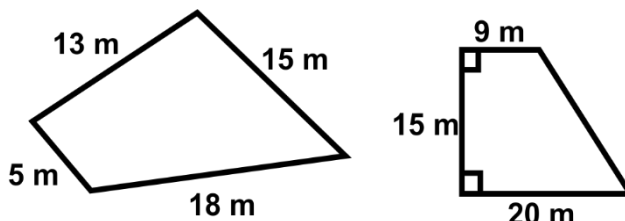
38. Which of the following is the maximum in value?

- a. 14 thousands 13 hundreds 12 tens 14 ones - 11 thousands 5 hundreds 11 tens 15 ones  
 b. 7 thousands 15 hundreds 11 tens 12 ones + 4 thousands 6 hundreds 9 tens 17 ones  
 c. 15 thousands 11 hundreds 10 tens 12 ones - 3 thousands 4 hundreds 11 tens 18 ones  
 d. 9 thousands 13 hundreds 18 tens 22 ones + 2 thousands 15 hundreds 14 tens 19 ones

39. A train takes 9 hours and 40 minutes to travel from one destination to another. A plane takes one-fourth of the time taken by the train to travel between the same two destinations. What is the time taken by the plane?

- a. 1 hour and 50 minutes  
 b. 1 hour and 55 minutes  
 c. 2 hours and 15 minutes  
 d. 2 hours and 25 minutes

40. Find the missing side if perimeter of both the figures is same:



- a. 9 m  
 b. 8 m  
 c. 7 m  
 d. 6 m

## Answer Key

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