UNICUS OLYMPIADS

Sample Paper

Class 2
Unicus Global Math Olympiad (UGMO)

Time: 60 minutes

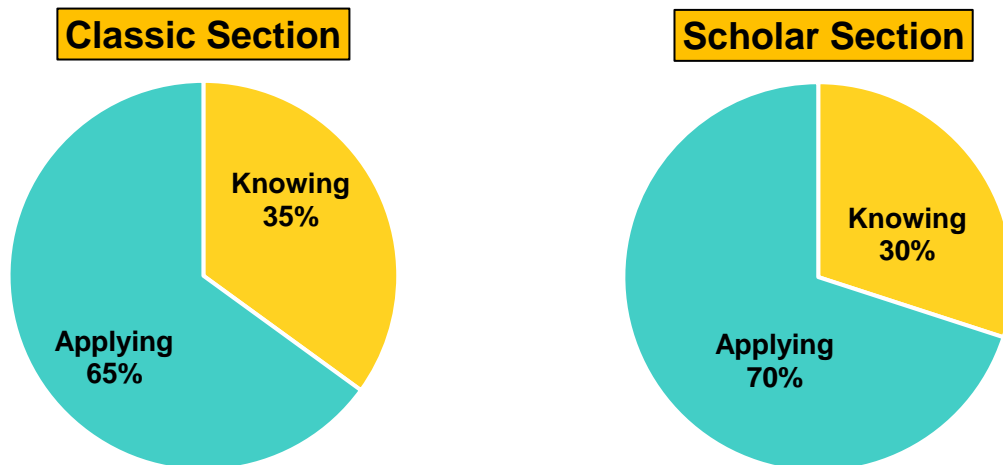| Pattern and Marking Scheme			
Section	**Total Questions**	**Marks per Question**	**Total Marks**
Classic Section	20	1	20
Scholar Section	10	2	20
Grand Total	**30**		**40**

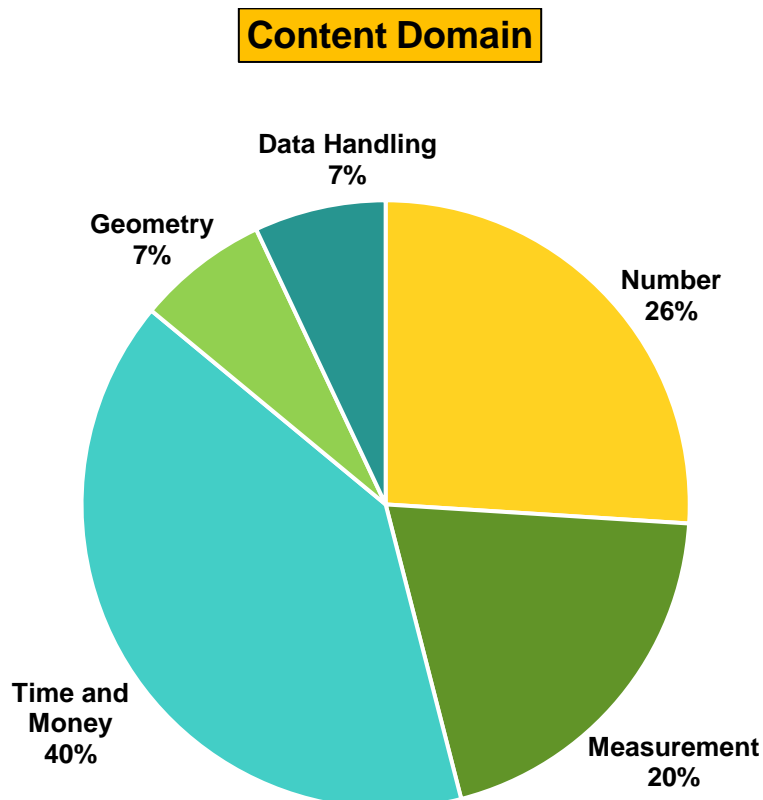**Unicus Global Mathematics Olympiad (UGMO)**

The **Unicus Global Olympiad** is organised around two dimensions:
1. Content dimension, specifying the subject matter domains to be assessed
2. Cognitive dimension, specifying the thinking processes to be assessed

Target percentages of the question paper devoted to cognitive domains

Classic Section

Knowing
35%

Applying
65%

Scholar Section

Knowing
30%

Applying
70%

Target percentages of the question paper devoted to content domains

Content Domain

Data Handling
7%

Geometry
7%

Number
26%

Time and
Money
40%

Measurement
20%

For more details, visit https://www.unicusolympiads.com/.

Classic Section (Each Question is 1 Mark)

Cognitive Domain: Applying	Content Domain: Number

1. What is the number name of the number shown in the picture?
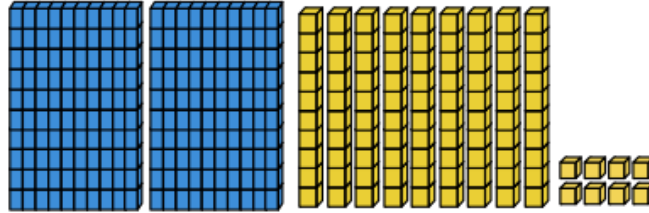
  a. **Two hundred eighty-nine**

  b. **Two hundred eighty-eight**

  c. **Two hundred ninety-eight**

  d. **Eight hundred ninety-two**

Cognitive Domain: Applying	Content Domain: Number

2. There are 27, 34 and 29 mangoes respectively in three mango trees in a farm. What is the total number of mangoes in the three trees altogether?

  a. **61**   b. **63**

  c. **70**   d. **90**

Cognitive Domain: Applying	Content Domain: Number

3. A gardener planted 13 rows of 8 saplings each. How many saplings were planted in all?

  a. **84**   b. **94**

  c. **98**   d. **104**

Cognitive Domain: Applying	Content Domain: Measurement

4. Fill in the blank:
The cupboard is ___ units tall.
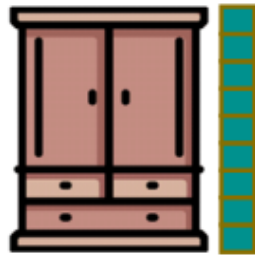
Each ▧ = 7 units

a. **16**

b. **63**

c. **70**

d. **90**

Cognitive Domain: Knowing	Content Domain: Measurement

5. How much do the given vegetables weigh altogether?

648 g   595 g

a. **1 kg 133 g**

b. **1 kg 143 g**

c. **1 kg 233 g**

d. **1 kg 243 g**

Cognitive Domain: Knowing	Content Domain: Measurement

6. What is the total amount of liquid in containers A and B altogether?
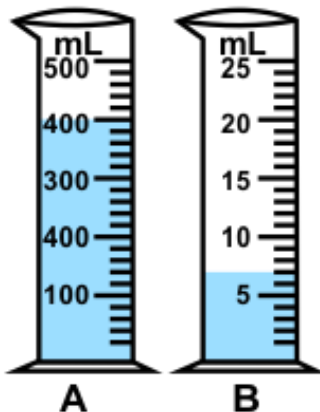
a. **427 mL**
b. **447 mL**
c. **457 mL**
d. **467 mL**

Cognitive Domain: Applying	Content Domain: Measurement

7. From the 865 mL of juice in the jug, Allan and Jack consume 127 mL and 165 mL respectively. How much juice will be left in the jug?

865 mL

a. **573 mL**
b. **700 mL**
c. **738 mL**
d. **768 mL**

Cognitive Domain: Knowing	Content Domain: Time and Money

8. What will be the time an hour after the time shown on the clock?

a. **5:20**
b. **5:30**
c. **6:20**
d. **7:20**

Cognitive Domain: Applying	Content Domain: Time and Money

9. The train scheduled to arrive at 11:40 a.m. was delayed by an hour and 10 minutes. At what time will the train arrive?

a. **12:30 a.m.**
b. **12:50 a.m.**
c. **12:30 p.m.**
d. **12:50 p.m.**

Cognitive Domain: Applying	Content Domain: Time and Money

10. Fill in the blank:

Jane went to a summer camp that lasted for three weeks. The summer camp lasted for ___ days.

a. **21**   b. **24**
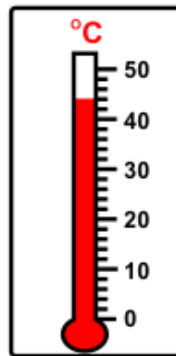
c. **27**   d. **28**

Cognitive Domain: Knowing	Content Domain: Measurement

11. What is the temperature on the thermometer?
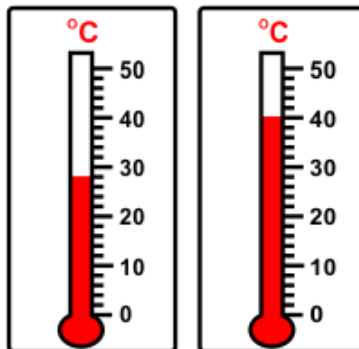

a. **42°C**   b. **44°C**

c. **42°F**   d. **44°F**

Cognitive Domain: Applying	Content Domain: Measurement

12. How much higher is the temperature shown by thermometer B than thermometer A?

a. **8°C**   b. **12°C**

c. **14°C**   d. **16°C**

Cognitive Domain: Applying	Content Domain: Measurement

13. A glass of coffee was prepared at 89°F. Later, some ice cubes were dropped into it which brought the temperature down to 70°F. How much did the ice cubes cool down the coffee?

a. **9°F**

b. **17°F**

c. **19°F**

d. **21°F**

Cognitive Domain: Knowing	Content Domain: Time and Money

14. Convert the given money into cents.

a. **150¢**

b. **200¢**

c. **250¢**

d. **300¢**

Cognitive Domain: Knowing	Content Domain: Time and Money

15. Fill in the blank:
The total money shown is ___ pennies.

a. **64**

b. **74**

c. **114**

d. **124**

Cognitive Domain: Applying	Content Domain: Time and Money

16. What is the total cost of buying 4 sandwiches and 2 milkshakes?

$5 $7
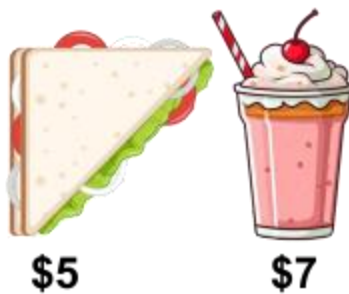
a. **$12**

b. **$14**

c. **$20**

d. **$34**

Cognitive Domain: Knowing	Content Domain: Geometry

17. What 3D shape does the given object resemble?

a. **cylinder**

b. **cube**

c. **cone**

d. **cuboid**

Cognitive Domain: Applying	Content Domain: Data Handling

18. The given table shows the number of chocolates eaten by 4 children. How many chocolates did Diana and Maria eat altogether?

Susan	
Lisa	
Diana	
Maria	
Each = 3 candy	

a. **18**

b. **21**

c. **31**

d. **39**

Cognitive Domain: Applying	Content Domain: Number

19. Fill in the blank:

7, 20, ___, 46, 59

a. **31**

b. **33**

c. **34**

d. **35**

Cognitive Domain: Applying	Content Domain: Number

20. What will be the missing shape?

a.

b.

c.

d.

Scholar Section (Each Question is 2 Marks)

Cognitive Domain: Knowing	Content Domain: Number

21. Which of the following shows the correct ascending order of numbers?

a. **526 > 108 > 624 > 412**

b. **108 < 412 < 526 < 624**

c. **108 > 412 > 526 > 624**

d. **108 < 526 < 412 < 624**

Cognitive Domain: Applying	Content Domain: Life Processes

22. Identify the 3-digit number based on the given hints.
The ones place digit is the greatest single-digit odd number.
The sum of the tens and hundreds place digit is 3.
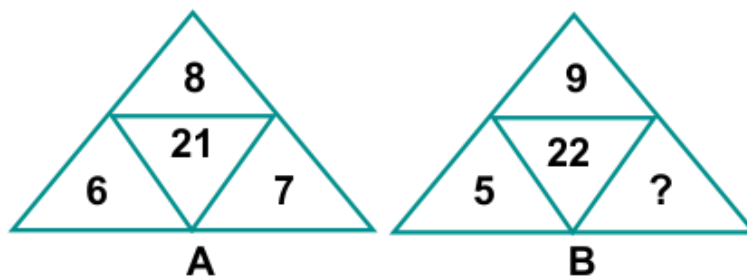
a. **129**

b. **211**

c. **227**

d. **921**

Cognitive Domain: Applying	Content Domain: Number

23. If the same relationship is followed in B as in A, find the missing number.

a. **7**

b. **8**

c. **9**

d. **11**

Cognitive Domain: Knowing	Content Domain: Measurement

24. Bob cycles from his home to the library and then from the library to his friend Peter's home. How much distance did he cycle?

248 m

155 m
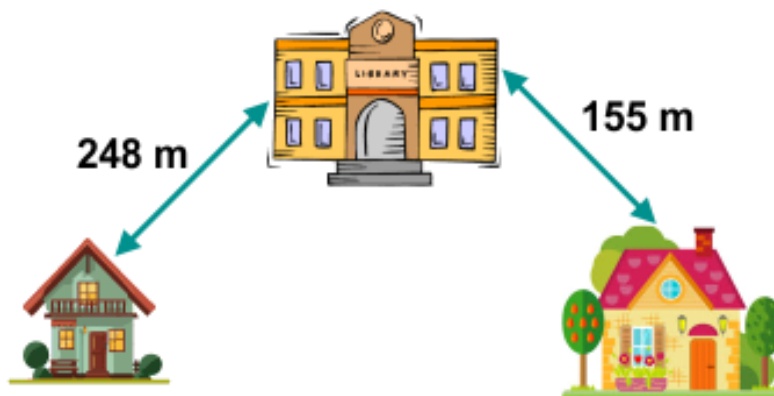
a. **303 m** b. **393 m**

c. **403 m** d. **493 m**

Cognitive Domain: Applying	Content Domain: Measurement

25. What is the weight of the teddy bear?

Each ☐ = 80 g

a. **180 g** b. **200 g**

c. **220 g** d. **240 g**

Cognitive Domain: Applying	Content Domain: Time and Money

26. John played in the park from 5:10 p.m. to 6:45 p.m. For what duration did he play in the park?

a. **1 hour 20 min** b. **1 hour 30 min**

c. **1 hour 35 min** d. **1 hour 40 min**

Cognitive Domain: Applying	Content Domain: Measurement

27. The temperature of a city is 41°F on the coldest day. The temperature on the warmest day of the city is 32°F more than the temperature on the coldest day. Find the temperature on the warmest day.

a. **9°F** b. **63°F**

c. **71°F** d. **73°F**

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28. What will be the change received if $100 is paid at the counter for buying the given items?

$39 $14

a. **$23**   b. **$47**

c. **$53**   d. **$57**

29. Fill in the blanks:
There are ___ horizontal lines and ___ vertical lines in the given image.

a. **2, 2**   b. **2, 3**

c. **3, 2**   d. **3, 3**

30. The given table shows the number of cookies eaten by 4 children.
How many more cookies did Diana eat than Susan?

Susan	🍪🍪🍪🍪
Lisa	🍪🍪🍪
Diana	🍪🍪🍪🍪🍪
Maria	🍪🍪🍪🍪🍪🍪🍪
Each 🍪 = 3 cookies	

a. **2**

b. **3**

c. **6**

d. **9**

<div style="background:#F5C518;"><h1 align="center">Answer Key</h1></div>

1.	c	2.	d	3.	d	4.	b	5.	d	6.	b	7.	a
8.	d	9.	d	10.	a	11.	b	12.	b	13.	c	14.	c
15.	c	16.	d	17.	a	18.	d	19.	b	20.	a	21.	b
22.	a	23.	b	24.	c	25.	b	26.	c	27.	d	28.	b
29.	d	30.	c										