(1)

UNICUS OLYMPIADS Sample Paper

Class 3
Unicus Global Math Olympiad (UGMO)

Time: 60 minutes

| Pattern and Marking Scheme |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Total <br> Questions | Marks per <br> Question | Total <br> Marks |
|  | 20 | 1 | 20 |
|  | 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


Target percentages of the question paper devoted to content domains

## Content Domain



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

## Unicus Global Mathematics Olympiad (UGMO)

## Classic Section (Each Question is 1 Mark)

\section*{| Cognitive Domain: Knowing | Content Domain: Number |
| :--- | :--- |}

1. Which of the following shows the correct ascending order of numbers?
a. $2164>2017>1024>1009$
b. 2164 \& $2017<1024<1009$
c. $2017>2164>1024>1002$
d. $2164>2017>1009>1024$

\section*{| Cognitive Domain: Applying | Content Domain: Number |
| :--- | :--- |}

2. What is the number name of the predecessor of the number shown in the abacus?

a. Three thousand four hundred and sixty
b. Three thousand four hundred and sixty-one
c. Three thousand four hundred and seventy
d. Three thousand four hundred and seventy-one

| Cognitive Domain: Applying | Content Domain: Number |
| :--- | :--- |

3. How many sketch pens will be there in 127 such similar packets?

a. (0) 4
c. 7

- 712
. 889


## Unicus Global Mathematics Olympiad (UGMO)

| Cognitive Domain: Applying | Content Domain: Number |
| :--- | :--- |

4. A bakery shop packs 8 cookies in each packet. How many packets are packed if 120 cookies are packed in a day?
a.

b. 5
c.

d. 5

## Content Domain: Number

5. Identify the type of fraction.

a. Improper fraction
b. Proper fraction
c. Mixed fraction
d. Unit fraction

\section*{| Cognitive Domain: Applying | Content Domain: Number |
| :--- | :--- |}

6. What will come in place of $\square$ ?


- 10
b. 2
c. 5
d. 0


## Cognitive Domain: Applying <br> Content Domain: Measurement

7. The length of an insect is 171 mm . What will be the total length of 3 such insects?
a. 513 cm
. 5 cm 13 mm
c. 51 cm 3 mm
،. 50 cm 13 mm

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## Cognitive Domain: Applying

8. From the flour packet, the chef uses 275 g of flour to bake cake and 185 g of flour to bake cookies. How much amount of flour will be left?

a.

c.

b.

d.


## Cognitive Domain: Knowing

Content Domain: Measurement
9. A 20 L bucket is completely filled with water. If a child plays and spills 4 L 365 mL of water from the bucket, how much water is left in the bucket?
a. 15 L 365 mL
. 15 L 635 mL
c. 15 L 645 mL

- 16 L 635 mL


## Cognitive Domain: Applying

10. The thermometer given shows the temperature of city $A$. The temperature of city $B$ is three times the temperature of city A . What is the temperature of city B ?

a.

b. $30^{\circ} \mathrm{C}$
c.

d. $36^{\circ} \mathrm{C}$

## Unicus Global Mathematics Olympiad (UGMO)

\section*{| Cognitive Domain: Applying | Content Domain: Measurement |
| :--- | :--- |}

11. As per the instructions of an oven, a pizza is to be cooked at $326^{\circ} \mathrm{F}$ but Bianca sets the temperature of the oven to $18^{\circ} \mathrm{F}$ colder. At what temperature has she set the oven?
a. $308^{\circ}$ Г
b. $318^{\circ} \mathrm{F}$
c. $344^{\circ} \mathrm{F}$
d. $3544^{\circ}$ Г

## Cognitive Domain: Knowing

12. Fill in the blank:

The time shown on the clock is $\qquad$ .

a. quarter past 7
b. quarter to 7
c. half past 7
d. quarter to 8

## Cognitive Domain: Knowing

Content Domain: Time and Money
13. Sara eats her lunch at the time shown on the clock. Which of the following options gives the correct time in 24 -hour format?

a. 02:15:00
. $14: 15: 00$
c. 02:02:15
. 16:15:00

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## Cognitive Domain: Applying

14. An oven bakes a cake in 45 minutes. If 3 cakes were baked in the oven, how much time was taken to bake the three cakes?
a. 1 hour 95 minutes
b. 2 hours
c. 2 hours 15 minutes
c. 2 hours 30 minutes

\section*{| Cognitive Domain: Applying | Content Domain: Time and Money |
| :--- | :--- |}

15. A family bought 2 similar-sized pizzas and a bottle of coke. If they paid $\$ 100$ at the counter, what change will be received?

a.

b.

c.

d.


## Cognitive Domain: Knowing

Content Domain: Geometry
16. Which of the following shows a pair of perpendicular lines?
a.

b.
$\qquad$
d.

c.


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\section*{| Cognitive Domain: Applying | Content Domain: Geometry |
| :--- | :--- |}

17. Which of the following is an obtuse angle?
a.

b.

c.

d.


## Cognitive Domain: Knowing

Content Domain: Geometry
18. What 3D shape does the given picture resemble?
*. pyramid
b. cylinder
c. sphere
d. cuboid

Directions (19-20): Study the given pictograph and answer the following questions:
The given pictograph shows the number of saplings planted from Monday to Thursday.

| Monday |  |
| :--- | :--- |
| Tuesday | Wednesday |
| Thursday | 7 saplings |
| Each |  |

## Unicus Global Mathematics Olympiad (UGMO)

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Cognitive Domain: Applying 
```

19. How many more saplings were planted on Thursday than on Tuesday?
a.

b.
7
c.

d.


## Cognitive Domain: Applying

20. On which day the maximum number of saplings were planted and how many?
a. Thursday, 4
b. Wednesday, $\mathbf{5}$
c. Thursday, $\mathbf{2 8}$
d. Wednesday, $\mathbf{3 5}$

## Scholar Section (Each Question is $\mathbf{2}$ Marks)

## Cognitive Domain: Applying <br> Content Domain: Number

21. Identify the 4-digit number based on the hints.

The ones place digit is the greatest single-digit odd number.
The sum of the tens and ones place digits is 13 .
The thousands place digit is 4 more than the tens place digit.
The hundreds place digit is 2 less than the thousands place digit.
a. 6490
b. 6849
c. 8469
d. 8649

## Cognitive Domain: Applying

22. A train is carrying 2083 passengers. At a station, 693 passengers get down from the train and 786 passengers board the train. How many passengers are there in the train now?
a. 1390
b. 7990
c. 2176
d.


## Unicus Global Mathematics Olympiad (UGMO)

\section*{| Cognitive Domain: Applying | Content Domain: Number |
| :--- | :--- |}

23. Which of the following shows the given fraction in its simplest form?
a. $\frac{2}{3}$
b. $\frac{14}{21}$
c.

d.


| Cognitive Domain: Knowing | Content Domain: Measurement |
| :--- | :--- |

24. How much longer is the eraser than the sharpener?

a. G円ी
b. 2 -1
c. 5 Gリㅁ
d. 4, G10

\section*{| Cognitive Domain: Knowing | Content Domain: Measurement |
| :--- | :--- |}

25. The weight of mother, father and child is 146 kg altogether. If the mother weighs 64 kg and the father weighs 8 kg more than the mother, what will be the weight of the child?
a.

b.

c.

d.


## Unicus Global Mathematics Olympiad (UGMO)

| Cognitive Domain: Applying | Content Domain: Measurement |
| :--- | :--- |

26. Soups are served in bowls as shown in a restaurant. If the chef receives an order to prepare 8 bowls of soup, how much amount of soup will he prepare?

a. 1 L 600 mL
b. 1 L 780 mL
c. 1 L 800 mL
. 1 L 900 mL

## Cognitive Domain: Applying

Content Domain: Time and Money
27. Lisa started shopping at 5:20 p.m. and finished her shopping by 7:45 p.m. For what duration did she do shopping?
a. 1 hour 55 minutes
b. 2 hours 5 minutes
c. 2 hours 15 minutes
c. 2 hours $\mathbf{2 5}$ minutes

\section*{| Cognitive Domain: Knowing | Content Domain: Time and Money |
| :--- | :--- |}

28. How much money is shown here?

a.

b. 8
c.

d. 542

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## Cognitive Domain: Applying

## Content Domain: Time and Money

29. What is the total amount required to purchase 16 bags of chips and 14 packages of biscuits?

a.

b. 84
c.
d.

\section*{| Cognitive Domain: Applying | Content Domain: Geometry |
| :--- | :--- |}

30. How many angles are acute angles?

a. 3
c.


b.

d.


## Answer Key



