UNICUS OLYMPIADS

Sample Paper

Class 2
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	5	2	10
Grand Total	**35**		**40**

Classic Section (Each Question is 1 Mark)

1. Peter's preschool starts at the time shown in the given clock. At what time does his preschool close if it functions for 3 hours?

a.

b.

c.

d.

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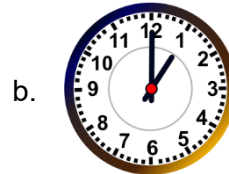
2. If Pam's birthday was on the third Thursday of April 2019, then what was her birth date?

APRIL 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

a. 18th April
c. 25th April

b. 11th April
d. 17th April

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3. A parking area has 35 cars parked. 17 more cars come in the next one hour and park. How many cars are parked in all?
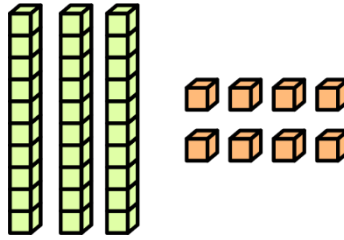
a. 48
c. 58

b. 52
d. 64

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4. Fill in the blank:
21 + ___ + 13 = 45 - 8

a. 0
c. 3

b. 2
d. 5

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5. Which of the following options represents the number correctly?

a. 3 tens 8 ones   b. 8 tens 3 ones

c. 4 tens 8 ones   d. 8 tens 4 ones

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6. What is the ordinal number for the lady with the black hat in the picture from the beginning?

a. 1st b. 2nd

c. 6th d. 7th

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7. Rocky wants to buy three magic pens each costing $45. If he has $100, then how much more money does he need?
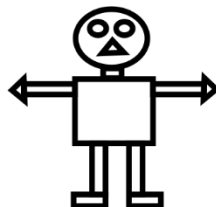
a. $25   b. $35

c. $40   d. $45

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8. Rony went to the toy store to purchase smart toys. She purchased the items shown in the picture below. What is the difference in the price of the two items?

$90 $78

a. $22   b. $18

c. $16   d. $12

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9. Fill in the blank:
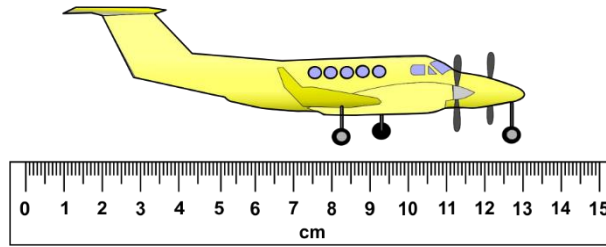There are _____ more circles than triangles in the picture.

a. 0
b. 2
c. 4
d. 5

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10. Look at the image given below and find the length of the aeroplane:

a. 12 cm
b. 14 cm
c. 15 cm
d. 16 cm

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11. The sum of two numbers is 812. If one of them is 468, then what is the other?
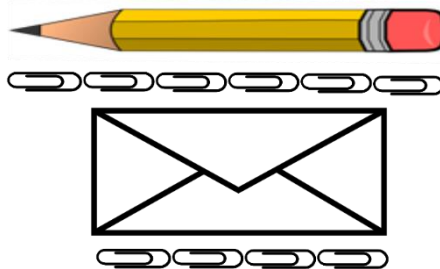
a. 334
b. 338
c. 344
d. 348

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12. Fill in the blank:
The pencil is longer than the envelope by _____ clips.

a. 1
b. 2
c. 3
d. 4

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13. In a fridge, there are 5 stacks of chocolate pudding, 8 stacks of brownies, 3 stacks of ice-cream and 5 stacks of pasta. How many stacks of dessert are there in the fridge?

a. 21
b. 16
c. 8
d. 11

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14. Identify the correct number statement for the following:
John found 23 baseballs out of which 5 lost and 7 required pumping. How many baseballs were in usable condition?

a. 23 + 7 - 5
b. 23 - 7 - 5
c. 23 - 7 + 5
d. 23 + 7 + 5

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15. There are 5 whiteboards and 3 boxes of 6 markers each being used in a school for grade 1. The principal feels that they need 8 whiteboards and 9 boxes of markers in total for grade 1. How many more whiteboards and marker boxes are needed in the school for grade 1?

a. 13, 12

b. 3, 3

c. 2, 4

d. 3, 6

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16. Which of the following numbers is the least?

a. 28 tens 4 ones + 2 tens 7 ones

b. 36 tens 5 ones - 29 ones

c. 21 tens 9 ones - 4 ones

d. 29 tens 2 ones + 3 tens 1 ones

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17. Sameera invites some guests for dinner at her place at 7:30 p.m. but the guests arrive at 9:00 p.m. How late were the guests?

a. 1 hour 30 minutes

b. 1 hour 15 minutes

c. 1 hour 45 minutes

d. 45 minutes

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18. How many bananas of weight 70 g each would make 350 g?

a. 3

b. 4

c. 5

d. 6

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19. How much longer is a 41 cm book than a 13 cm long pen?

a. 24 cm

b. 28 cm

c. 32 cm

d. 36 cm

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20. A cupboard has 34 fiction books and 47 non-fiction books. What is the total number of books in the cupboard?

a. 71

b. 76

c. 81

d. 84

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21. Identify the correct number statement:
Out of 20 eggs in the fridge, 6 were used to make omlettes, 4 used to make cakes and 3 were boiled. How many eggs were left?

a. 20 - 6 - 4 - 3

b. 20 - 6 + 4 + 3

c. 20 - 6 - 4 + 3

d. 20 - 6 + 4 - 3

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22. In a race, there are 4 runners with numbers 819, 918, 981 and 198. The runner with the lowest number wins the race. Who won the race?
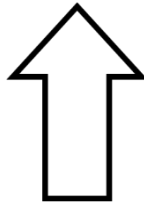
a. Eight hundred and nineteen
b. Nine hundred and eighteen
c. Nine hundred and eighty-one
d. One hundred and ninety-eight

23. Match the following:

1.	Wheels of a cycle	i.	Rectangle
2.	A slice of pizza	ii.	Circle
3.	Mobile Phone	iii.	Triangle

a. (1) - (i), (2) - (iii), (3) - (ii)
b. (1) - (iii), (2) - (ii), (3) - (i)
c. (1) - (ii), (2) - (i), (3) - (iii)
d. (1) - (ii), (2) - (iii), (3) - (i)

24. Which of the following 2D shapes can be used to combine and make the picture shown?

a. Rectangle and circle
b. Rectangle and triangle
c. Circle and triangle
d. Circle and square

25. The total weight of 4 identical toy cars is 800 g. What will be the weight of 6 such toy cars?
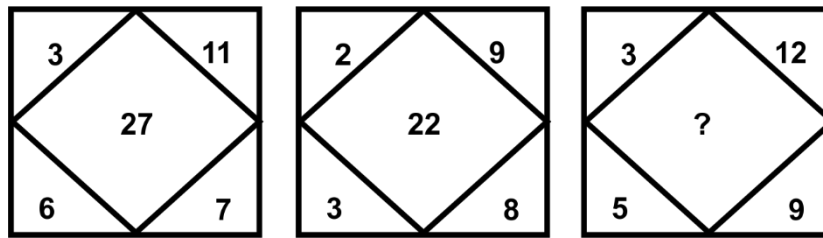
a. 1000 g
b. 1200 g
c. 1400 g
d. 1600 g

26. A chocolate weighs 75 g. How many such chocolates can be put in a box which can hold a maximum weight of 500 g?

a. 5
b. 6
c. 7
d. 8

27. Which of the following is equal to the number (23 + 49)?

a. 20 + 3 + 4 + 9
b. 49 + 23
c. 23 + 4 + 9
d. 2 + 3 + 4 + 9

28. If the same relationship follows in each square, what will come in place of "?"?

3		11
	27	
6		7

2		9
	22	
3		8

3		12
	?	
5		9

a. 21   b. 24

c. 26   d. 29

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29. Fill in the blank:

Subtracting fifty-eight from eighty-one will give result as _____.

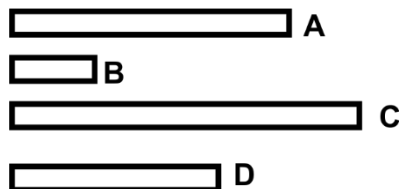a. twenty-two   b. twenty-one

c. twenty-four   d. twenty-three

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30. Which of the following shows 110 more than 3 hundreds 14 tens and 5 ones?

a. 5 hundreds 5 tens 5 ones   b. 5 hundreds 6 tens 5 ones

c. 5 hundreds 4 tens 4 ones   d. 4 hundreds 4 tens 5 ones

Scholar Section (Each Question is 2 Marks)

31. Arrange these in increasing order of their length

A

B

C

D

a. B < D < A < C   b. B > D > A > C

c. C < A < D < B   d. C > A > D > B

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32. The cost of a packet of chips is $35 and 75 cents. How much will Richard have to pay if he buys three such packets of chips?

a. $107 and 75 cents   b. $106 and 25 cents

c. $106 and 75 cents   d. $107 and 25 cents

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33. The students of grade 1 were taken to a picnic. They started at 9:00 a.m. in the bus and reached the destination after one and a half hours. They stayed at the picnic spot for 3 hours and again took one and a half hours for their way back to school. At what time did they reach school?
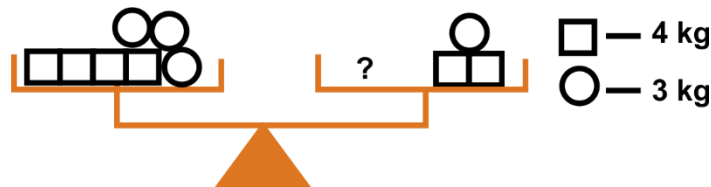
a. 3:00 a.m.
b. 3:00 p.m.
c. 2:00 a.m.
d. 2:00 p.m.

34. Match the following:

	Column A		Column B
A.	1 hundred 2 tens 4 ones	i.	Two hundred and two
B.	24 tens 14 ones	ii.	Two hundred and fifty-four
C.	19 tens 12 ones	iii.	One hundred and twenty-four

a. A- (ii), B- (iii), C- (i)
b. A- (iii), B- (ii), C- (i)
c. A- (i), B- (ii), C- (iii)
d. A- (iii), B- (i), C- (ii)

35. What should come in place of "?" so that the weighing balance is balanced?

☐ — 4 kg
◯ — 3 kg

a. 14 kg
b. 11 kg
c. 12 kg
d. 17 kg

Answer Key

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