Sample Paper

Class 3
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. A factory has 10,579 bags of raw materials, out of which the owner used 5,000 bags to produce toys. How many bags of raw material does he have left?

    a. 15,579   b. 5,000

    c. 5,579   d. 10,579

2. A town has 2,09,467 males and 1,74,875 females. Calculate the total population of the town:

    a. 3,84,352   b. 3,84,342

    c. 4,31,572   d. 34,592

3. Find the value of X + Y if:

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    3  Y  8
-   1  4  X
   ─────────
    1  8  4
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    a. 5   b. 4

    c. 6   d. 7

4. Ron visited his friend's farm where he saw 4 hens, 3 cows and 2 goats. How many legs of non-human beings did he see?

    a. 28   b. 26

    c. 32   d. 30

5. Find the missing number:

    a. 97   b. 87

    c. 88   d. 86

6. What is the temperature of water if it is 10 degrees less than that shown on the thermometer?

a. 60ºC

b. 70ºC

c. 50ºC

d. 80ºC

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7. Find the weight of football:
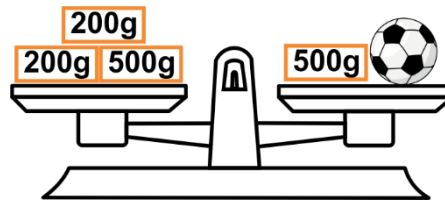
a. 300 grams

b. 400 grams

c. 500 grams

d. 600 grams

**8.** Rosie wants to buy many things. Help her to understand which of these options makes $174.

a. One $100, Two $50, Two $20 and Five $1

b. Two $100, One $50 and Five $1

c. $100, One $50, One $20 and Four $1

d. One $100, Three $50, Two $20 and Six $1

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9. I am a two-digit number between 22 and 42. My unit's place digit is twice my ten's place digit. The sum of my digits is 9. Who am I?

a. 24

b. 36

c. 27

d. 35

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10. Which of the following thermometers shows the lowest temperature?

a. A

b. B

c. C
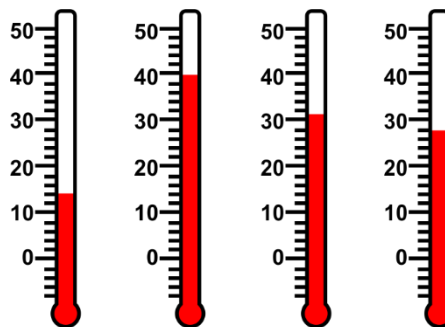
d. D

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11. 7 flowers are tied together with a string to make a bouquet. How many such bouquets can be formed from 56 such flowers?

a. 63

b. 8

c. 49

d. 9

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12. A grocer sold 137 eggs in a day. If there are 57 eggs left at the end of the day, how many eggs were there in his shop when it opened during the day?

a. 194

b. 137

c. 80

d. 57

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13. Find the value of P if:

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    6  P  2
  x      4
 _____
 2  5  2  8
```

a. 2

b. 3

c. 5

d. 6

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14. A train travels 700 km 250 m from Town A to B and takes the same route back the next day from B to A. How much distance did the train travel to and fro?

a. 1386 km 500 m

b. 1386 km 435 m

c. 1400 km 500 m

d. 1400 km 750 m

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15. There are 27 chocolates in each box. What will be the total number of chocolates if there are 7 such boxes?

a. 189

b. 198

c. 208

d. 289
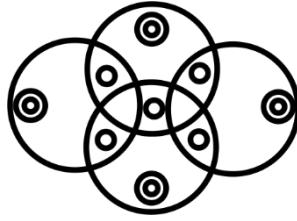
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16. How many open figures are there?

a. 1

b. 2

c. 3
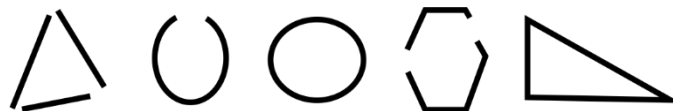
d. 4

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17. Jack works for 9 hours in his office daily. How many hours does he work in the month of September if Saturdays and Sundays are holidays for him? (Consider 4 Saturdays and 4 Sundays in the month)

a. 189 hours

b. 198 hours

c. 208 hours

d. 216 hours

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18. How many circles are there in the picture?

a. 9

b. 12

c. 13

d. 17

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19. A machine makes 7 barbie dolls in an hour. In how many hours will it make 119 such barbie dolls?

a. 833 hours

b. 126 hours

c. 19 hours

d. 17 hours

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20. A shopkeeper opens his shop at 11:20 a.m. and closes it at 9:30 p.m. every day. For how many hours does his shop open in a day?

a. 9 hours 50 minutes

b. 10 hours

c. 10 hours 10 minutes

d. 10 hours 20 minutes

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21. Anya bought 2 L 250 mL of oil from the market. She used 750 mL of the oil for frying puris, 135 mL for cooking a vegetable and 50 mL for dosa. How much of oil was used?
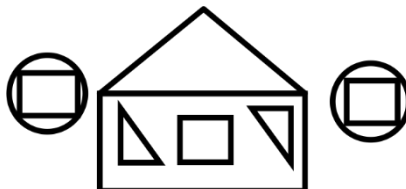
a. 825 mL

b. 865 mL

c. 915 mL

d. 935 mL

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22. Fill in the blank:
$529 + 75 cents = _____ ($1 = 100 cents)

a. $575

b. $604

c. $529.75

d. $609

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23. How many sleeping lines are there in the given figure?

a. 12

b. 6

c. 8

d. 10

**24.** Which of these correctly represents the ascending order?

a. 107 < 117 < 171 < 177 < 170

b. 117 < 107 < 171 < 177 < 170

c. 107 > 117 > 170 > 171 > 177

d. 107 < 117 < 170 < 171 < 177

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25. Peter went to a stationary. Magic pencil costs $50, magic sharpener costs $40, eraser costs $5, pouch costs $41. Which of these items can he buy when he wants to spend only $45?
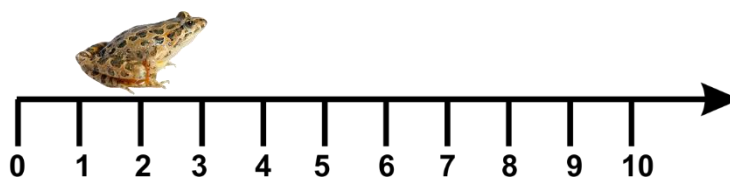
a. Pencil and eraser

b. Eraser and sharpener

c. Pencil and sharpener

d. Pencil box and eraser

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26. Which of these objects is the heaviest?
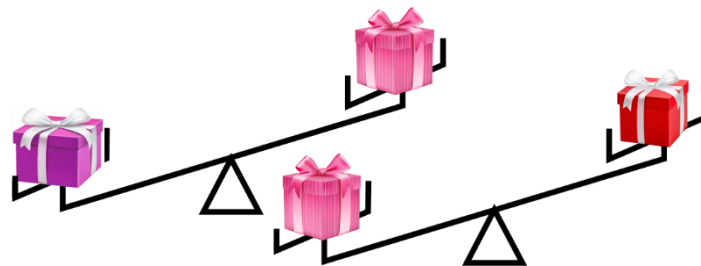
a.

b.

c.

d. Cannot be determined

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27. A frog is sitting at number 2 on the number line and can jump 2 steps at a time. Where will it be after the third jump?

a. 8

b. 6

c. 4

d. 5

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28. If Richard's summer vacations begin from the third Tuesday of the month, then how many days did he attend school in the month considering that the school is closed for Saturdays and Sundays?

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. 10 days
c. 12 days

b. 11 days
d. 13 days

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29. The weight of an ostrich's egg is 7 times the weight of a hen's egg. If the weight of a hen's egg is 120 grams, then find the weight of the ostrich's egg.

a. 780 grams
c. 840 grams

b. 820 grams
d. 920 grams

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30. A hotel at a hill station is completely booked from June 18 to 30 June. However, some reservations for 24th and 25th June are cancelled. For how many days in the month of June the hotel has rooms to accommodate more guests?

JUNE 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	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. 16 days
c. 18 days

b. 17 days
d. 19 days

Scholar Section (Each Question is 2 Marks)

31. Which of the following has greatest number of straight lines?

a.

b.

c.

d.

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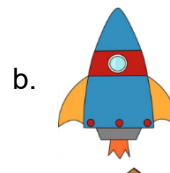
32. Which of these is least in value?

a. 6 hundreds 5 tens and 12 ones - 15 tens and 5 ones
b. 5 hundreds 6 tens and 20 ones + 2 hundreds 15 tens and 5 ones
c. 4 hundreds 7 tens and 18 ones + 3 hundreds 22 tens and 7 ones
d. 6 hundreds 8 tens and 2 ones - 2 hundreds 9 tens and 6 ones

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33. Sarah has 3 pencils of length 12 cm, 10 cm and 7 cm respectively. What is the total length of the pencils taken altogether?

a. 29 cm
b. 31 cm
c. 33 cm
d. 35 cm

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34. A train takes 9 hours 35 minutes to reach from Town A to B and a car takes 17 hours 24 minutes to reach from Town A to B. How much more time did the car take than the train?

a. 6 hours 31 minutes
b. 6 hours 49 minutes
c. 7 hours 31 minutes
d. 7 hours 49 minutes

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35. Find the number of triangles in the picture:

a. 10
b. 11
c. 12
d. 14

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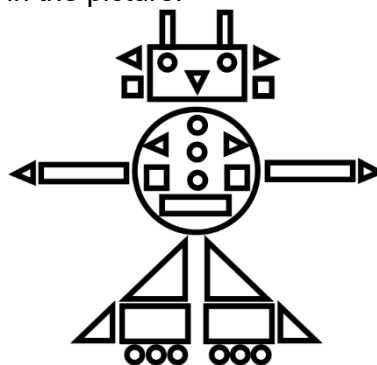
36. On the festival, Ana spent 238$ on chandeliers, 85$ on crackers and 26$ on dry fruit sweets. How much money did she spend in all?

a. $297

b. $349

c. $399

d. $479

37. Jack went by his bicycle from home to the library which is at a distance of 700 m. He then walked from the library to his school which is at a distance of 200 m. After school, he walked back to the library to return the book and then cycled back home. Find the distance that he cycled:

a. 1800 m

b. 900 m

c. 700 m

d. 1400 m

38. A piece of string 2 m 40 cm long is cut into 6 equal parts. What is the length of each part?

a. 20 cm

b. 24 cm

c. 36 cm

d. 40 cm

39. A truck carried 125 kg 325 gm of watermelon and 78 kg 465 gm of pumpkins. What is the total weight carried by the truck?

a. 205 kg 490 gm

b. 208 kg 790 gm

c. 210 kg 490 gm

d. 203 kg 790 gm

40. The sum of the weights of Anshy, Anv, and Tany is 85 kg. If Anvi is twice the weight of Anshy and Anv and Tany have equal weights, find the weights of Anshy, Anv, and Tany respectively.

a. 16 kg, 32 kg, 32 kg

b. 16 kg, 32 kg, 16 kg

c. 17 kg, 34 kg, 34 kg

d. 17 kg, 34 kg, 17 kg

Answer Key

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