

#UnicusIsUnique

Sample Paper



Class 4

COR CPC

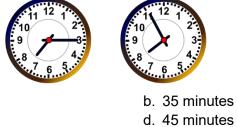
010

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 tailor uses 250 cm of cloth for making one sh will he use?	irt. If he makes 3 shirts, then how much cloth	
	a. 7 m 50 cm c. 6 m 50 cm	b. 7 m 25 cm d. 6 m 25 cm	
2.	Fill in the blank: The digit 8 in number 826 stands for	<u>.</u>	
	a. 8 tens c. 80 tens	b. 800 tens d. 80 hundreds	
3.	Choose the expanded form of 679:		
	a. 6 + 7 + 9 c. 600 + 70 + 9	b. 600 + 7 + 9 d. 600 + 79	
4.	If radius of the circle is first odd prime number,	then find its diameter:	
	a. 6 units c. 12 units	b. 9 units d. 15 units	
5.	A jug can hold 2 L 450 mL of water. A mug can quantity of water does the jug hold?	hold 700 mL of water. How much more	
	a. 1 L 750 mL c. 2 L 250 mL	b. 1 L 650 mL d. 2 L 750 mL	
6.	Look at the image given below. How long did R		
	Jogging starts	Jogging ends	



- a. 30 minutes
- c. 40 minutes

 Richard started watching TV at 3:00 p.m. and switched it off at 5:45 p.m. How long did he watch TV? 		
a. 2 hours 45 minutes	b. 2 hours 35 minutes	
c. 2 hours 25 minutes	d. 1 hours 55 minutes	
home. He then travels the rest of the	ne metro which is at a distance of 6 km 350 m from his route to his office via the metro train. If his office is at a n what distance did he cover by the metro journey?	
a. 21 km 350 m	b. 20 km 650 m	
c. 20 km 350 m	d. 19 km 650 m	
9. Out of a glass of milk, one-fifth was c	onsumed. How much milk is left in the glass?	
a. 1/5	b. 2/5	
c. 3/5	d. 4/5	
10. The cost of a coffee mug is \$170 and the cost of a packet of choco pie is \$140. Hina bought 8 coffee mugs and 6 packets of choco pie. How much money did she pay to the shopkeeper?		
a. \$1200	b. \$1390	
c. \$2080	d. \$2200	
11. If each side of a rectangle is equal in	length, then it is called a	
a. square	b. circle	
c. rectangle	d. triangle	
12. Lisa went shopping and found a pair of soft socks that she wanted to buy. A pair of socks costs \$65.00. How much will six pairs of such socks cost?		
a. \$390	b. \$420	
c. \$470	d. \$520	
13. Alice purchased 36 kg 285 g of sugar What is the total quantity of sugar pure sugar sugar pure sugar	r from one shop and 48 kg 460 g from another shop. rchased by him?	
a. 12 kg 175 g	b. 24 kg 650 g	
c. 68 kg 985 g	d. 84 kg 745 g	

14. Sarah wants to divide 28 lollipops equally among her 3 friends. How many lollipops will remain with her if all friends receive maximum lollipops?

a. 1	b. 3
c. 0	d. 2

15. A cricket match scheduled to start at 9:15 a.m. is delayed by 3 hours 25 minutes due to bad weather. At what time will the match begin?

a. 12:40 a.m.	b. 12:40 p.m.
c. 1:40 a.m.	d. 1:40 p.m.

16. The cost of a tennis ball, cricket ball and football are \$35, \$55 and \$175 respectively. How much money will Arya have to pay if she buys 10 tennis balls, 10 cricket balls, and 3 footballs?

a. \$1325	b. \$1,385
c. \$1,425	d. \$1,465

17. Jack took one-third of the time taken by Sam. If Sam took 24 minutes to jog in the park, what is the time taken by Jack to jog in the same park?

a.	72 minutes	b.	48 minutes
C.	27 minutes	d.	8 minutes

18. Find the fraction of unshaded flowers in the given figure:

	रहे रहे रहे
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	දිව දිවි දිවි දිවි
	ැලි දුරු දිදු දිදු
a. 1/4 c. 1/3	b. 3/4 d. 1/2

19. There are 98 cows and 57 chickens on a farm. Find the total number of legs that are there on the farm:

a. 620	b. 506
c. 392	d. 310

20. Sarah exercises every day for 25 minutes. Find the total time that she spent on exercise during the month of August:

a. 575 minutes	b. 700 minutes
c. 750 minutes	d. 775 minutes

21. Find the highest 4-digit number that can be formed using the digits 8, 1, 4 and 0 (using each digit only once):

a. 8,014	b. 8,104
c. 8,410	d. 4,018

22. A car is filled with 18 L of petrol. How many mL is that?

a. 18,000 mL	b. 1,80,000 mL
c. 1,800 mL	d. 180 mL

23. Anna and Amy went to pizza shop and ordered a pizza. Anna ate 1/6 of it and her friend ate 2/6 of it. What fraction of pizza is still left?

a. 1/2	b. 1/4
c. 2/6	d. 1/6

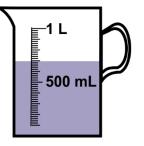
24. What is the geometric term used for the boundary of a circle?

a.	Circumference	b.	Perimeter
C.	Diameter	d.	Chord

25. Robert's train is travelling at a speed of 98 km per hour. How much distance will the train cover in a day, if it travels at the same speed throughout the day?

a. 2,352 km	b.	3,856 km
c. 240 km	d.	1,375 km

26. The given figure shows a measuring cup. If a bucket of water is filled by using the cup 9 times, then what will be the quantity of water in the bucket?



- a. 7800 mL
- c. 1000 mL

b. 6300 mL d. 5000 mL

27. Harry drank 400 mL of juice from the jug. Jack drank 100 mL more juice than Harry. If the jug had 1 L of juice originally, then how much juice is left in it now?

a.	400 mL	b. 500 mL
C.	100 mL	d. 600 mL

28. Henry cycled 400 m from his house to his school. On his way home, he stopped at a bookshop. Find the distance between the bookshop and his school if he had to cycle another 120 m to reach home:

a.	520 m	b.	320 m
C.	380 m	d.	280 m

29. Peter travelled one-third of a distance. If the distance is 12 km, then find the remaining distance that he would have travelled (in km):

a. 2	b. 4
c. 6	d. 8

30. Henry started his journey at 18:40 and finished at 22:20. The time taken in completing the journey is:

a.	3 hours 20 minutes	b.	3 hours 40 minutes
c.	3 hours 80 minutes	d.	4 hours 40 minutes

Scholar Section (Each Question is 2 Marks)

31. Find the difference between the sum of odd numbers and sum of even numbers on the wings of the butterfly:



32. Which of these statements is correct regarding the picture given below?



- a. Grapes are lighter than strawberries
- c. Grapes are heavier than strawberries
- b. Strawberries are heavier than grapes
- d. Both grapes and strawberries are equal in weight
- **33.** Pam distributes one-fourth of the sweets among her friends. How many sweets did she distribute out of a total of 28?

a.	5	b).	6
C.	7	d	Ι.	8

34. The cost of a cricket bat and ball is \$730 and \$25 respectively. Ross buys 1 bat and 5 such balls. If he pays \$1000 at the shop, how much money will he get back?

a.	\$245	b. \$125
C.	\$145	d. \$165

35. Find the number if:

- i. The first and last digit of the number are even numbers, and the middle digit is an odd number.
- ii. The unit's place digit is 5 more than the ten's place digit.
- iii. Its one's place digit is the largest 1-digit even number.
- iv. The hundred's place digit is one less than ten's place digit.

a.	. 254	b. 616
C.	. 472	d. 238

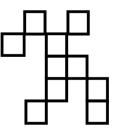
36. Manan is drawing a pattern. For every 7 rectangles, he makes 3 triangles. How many rectangles would be there in the pattern if there are 27 triangles?

a. 3	b. 63
c. 48	d. 57

37. If P = 274 x 63, Q = 7628 - 1265 and R = 2145 + 8627, then find P - Q + R:

a. 21,671	b. 28,304
c. 26,429	d. 24,814

38. Find the perimeter of the given shape made up of same-sized squares, if each side of the square is of 10 cm:



- a. 540 cm
- c. 320 cm

b. 460 cm

d. 100 cm

39. The table shows the mass of some objects.

Object	Р	Q	R	S		
Mass	3.6 kg	3600 g	360 g	3 kg 6 g		

The objects with the same mass are:

a.	P and Q	b.	R and S
C.	Q and R	d.	P and S

40. The number of minutes in 15 days is equal to the number of seconds in:

- a. 5 hours
- c. 4 hours

b. 8 hours

d. 6 hours

Answer Key

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