





UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 3

Question Paper Code: UM9274

KEY

1	2	3	4	5	6	7	8	9	10
D	D	С	В	Α	С	D	С	С	С
11	12	13	14	15	16	17	18	19	20
С	D	Α	С	D	С	В	С	D	С
21	22	23	24	25	26	27	28	29	30
В	В	Α	В	Α	С	С	С	D	С
31	32	33	34	35	36	37	38	39	40
С	С	С	С	Α	Α	В	С	Delete	С
41	42	43	44	45	46	47	48	49	50
В	В	С	В	В	В	В	Α	D	В

EXPLANATIONS

MATHEMATICS

01. (D) Triangle has no parallel lines.

02. (D) Watermelon +
$$X = 6 \text{ kg}$$

$$Y = 10 \text{ kg} - 6 \text{ kg}$$

$$= 4 kg$$

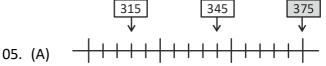
03. (C) $24 \times 8 = 192$

$$4 \times 48 = 192$$

04. (B) Varun = 17 + 30 = 47

$$= 47 - 22 = 25$$

Vihan = 22 + 25 = 47



06. (C) 356 + 110 = 400 + 100 = 500

07. (D) $50 \times 100 = 5000, 40 \times 100 = 4000,$ $210 \times 10 = 2100, 789 \times 10 = 7890$

08. (C)
$$\frac{3}{8} + \frac{5}{8} = 1$$

So the number in the box should be less than 5. 1, 2, 3 and 4 are smaller than 5. The greatest number that can appear in the box is 4.

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- 09. (C) Cookies = 876 601 = 275Pies = 548 - 390 = 158
- 10. (C) 135 hours \div 24 hr/day = 5 days with remainder 15 hrs
 - :. 135 hr = 5 days 15 hrs
- 11. (C) 65 kg = 65000 g difference = 65000 g - 62450 g = 2550 g = 2 kg 550 g
- 12. (D) The total value is $5 \times 1 + 3 \times 2 + 2 \times 5 = 5 + 6 + 10$ = 21 rupees
- 13. (A) **2**nd **3**rd **4**th
- 14. (C) $24 \times 3 = 72, 24 \times 1 = 27,$ 72 - 24 = 48
- 15. (D) Divide the circle into 6 equal parts $\frac{2}{6}$ of the circle is shaded.



16. (C) 5 l = 5000 m l

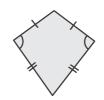
Number of glasses of water needed to fill up the bucket = $\frac{5000}{200}$ = 25

- 17. (B)
- 18. (C) P + Q = 20 l; Q + R = 18 l R = Q + 2 l; R = P - 2 l 2R = P + Q; $R = \frac{20 l}{2}$ R = 10 lP = 10 l + 2 l = 12 l

19. (D) Since Bala works from Monday to Thursday and on Saturday, he works 5 days a week.

So,
$$9 h \times 5 = 45 h$$

20. (C) In option (C) image does not have parallel lines.



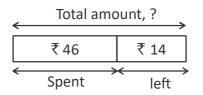
- 22. (B) 1 l = 1000 ml $1000 \text{ m}l \div 5 = 200 \text{ m}l$

Each glass contained 200 ml of orange juice.

$$2 \times 200 \text{ m}l = 400 \text{ m}l$$

He drank 400 m $\!l$ of orange juice

- 23. (A) 54 hundreds = 5400 5400 - 3362 = 2038
- 24. (B) 2 km 927 m = 1 km 1000 m 927 m = 1 km 73 m She still has to run a distance of 1 km 73 m
- 25. (A) Pen $\rightarrow \not\equiv 3$ File $\rightarrow \not\equiv 3 + \not\equiv 1 = \not\equiv 4$ Total cost of 6 pens $\rightarrow 6 \times \not\equiv 3 = \not\equiv 18$ Total cost of 7 files $\rightarrow 7 \times \not\equiv 4 = \not\equiv 28$ Total cost of the pens and files $\rightarrow \not\equiv 18 + \not\equiv 28 = \not\equiv 46$



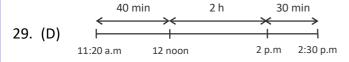
₹ 46 + ₹ 14 = ₹ 60

Mr. Tanish had ₹ 60 at first

26. (C)
$$\triangle$$
 = 6734

27. (C) $21 \div 1 = 21$

28. (C) $800 \times 6 = 4800 \text{ m}$



40 min + 2h + 30 min = 2 h 70 min

= 2 h + 60 min + 10 min

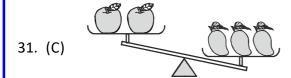
= 2 h + 1 h + 10 min

= 3 h 10 min

He stayed at the library for 3 h 10 min.

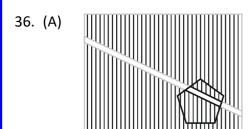
30. (C)
$$640 \div 4 = 160$$

 $160 \div 8 = 20$



- 33. (C) 650 paise = ₹ 6.50 650 paise + ₹ 3.50 = ₹ 6.50 + ₹ 3.50 = ₹ 10
- 34. (C) 45 tens 16 ones = 450 + 16 = 466
- 35. (A) Total cubes = 8 + 8 = 16Total volume = 16 kg

REASONING



37. (B) Carrot grown under soil and remaining above soiil.

38. (C) QRSTUVWXYZABCDEFG 5 7 HIJKLMNOPQRS

39. (Delete)

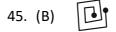
40. (C) In each figure,

Number on the 'head' = Sum of the numbers on the 'feet' ÷ 2

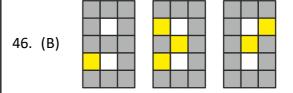
Hence, the missing number is 5.

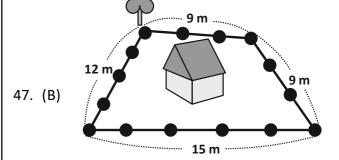
- 42. (B) Apple 5, Ball 4, Chair 5, Dog 3
- 43. (C) : B000t





CRITICAL THINKING





48. (A) Heat and light are both different types of energy. Light energy can be converted into heat energy. A black object absorbs all wavelengths of light and converts them into heat, so the object gets warm.

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- 49. (D) The number of black dots in each grid 50. (B) Going for a jog three times a week. increases by 1 each time, starting with the top left grid and working to the right, top row then bottom row.
 - Among the options, jogging regularly is the most beneficial habit for promoting physical health and well-being.

The End —