





UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 3

Question Paper Code: UM9269

KEY

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

EXPLANATIONS

MATHEMATICS

01. (A) Number of stickers Ram has = 1302

Number of stickers Akhil has

= 2934 - 1302 = 1632

Number of stickers Dinesh has

= 1802 - 1632 = 170

Dinesh has 170 stickers.

02. (B) $493 \times 57 = 28101 - 101 = 28000$

03. (D) $94 \times 9 = 846$

846 + 94 = 940

They spent ₹940 altogether.

04. (C) 993 - 345 = 648

05. (A) No of bananas in a box = 220

No of bags = 3

No of bananas left = $220 \div 3$

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Left = 1

- 06. (D) $345 \times 4 = 1380$ Value of 1 is 1000
- 07. (A) 52 + 48 = 100
- 08. (B) No. of Oranges with Devi = 240 g No. of Apples she bought = $240 \times 2 = 480$ g Total mass = 480 g + 240 g = 720 g
- 09. (D) 8934, 8493, 8439, 8394

$$\times$$
 5 = 60

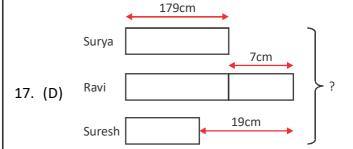
$$= 60 \div 5 = 12$$

$$= 24 \div 6 = 4$$

- 11. (C) 3290 m 742 m = 2548 m = 2 km 548 m
- 12. (C) Greatest odd number = 19 Smallest even number = 2 $19 \times 2 = 38$
- 13. (D) 88 + 3 = 91 $91 \div 7 = 13$

Hence, is $\frac{3}{4}$ of one whole

- 15. (C) Cost of 6 cupcakes = 90
 Cost of 1 cupcake = 90 ÷ 6 = ₹15
 Cost of 12 cupcakes = ₹15 × 12 = 180
 No. of dozens of cupcakes she can buy with ₹720 = ₹720 ÷ 180 = 4
 4 dozen cupcakes cost
 = 180 + 180 + 180 + 180 = ₹720
- 16. (B) Ten minutes past 10



179 cm + 7 cm = 186 cm (Ravi) 186 cm - 19 cm = 167 cm (Suresh) 179 cm + 186 cm + 167 cm = 532 cm = 5 m 32 cm

- 18. (D) No. of parts = 15 No. of shaded parts = 9 $\frac{9}{15} = \frac{3}{5} \text{ of the figure is shaded.}$
- 19. (C) Mass of 1 cat = 1800 g

 Mass of 3 cats \rightarrow 3 × 1800 = 5400 g

 3 cats have a mass of (100 + 200 + 200)
 = 500 g more than 2 dogs

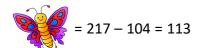
 Mass of 2 dogs \rightarrow 5400 500 = 4900 g

 Mass of 1 dog = 4900 ÷ 2 = 2450 g

 (or) 2 kg 450
- 20. (D) Option (A): 1 flat surface
 Option (B): 2 flat surfaces
 Option (C): 5 flat surfaces
 Option (D): 6 flat surfaces (greatest)
- 21. (D) End time of the fishing trip = 1 p.m.
 Start time = 6 a.m.
 The duration of fishing trip
 = 6 a.m. 1 p.m. = 7 hours

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$$= 113 + 113 + 104 = 330$$

23. (C) Difference between denominator and numerator = 11 - 9 = 2

Numerator is greatest odd number smaller than 10 = 9

Fraction =
$$\frac{9}{11}$$

24. (B) Number of semicircles used for a bus = 3

Number of semicircles used for a lorry = 2

Total semicircles = 3 + 2 = 5

25. (C)
$$\frac{2}{4} = \frac{P}{16} = \frac{3}{Q}$$
$$\frac{2}{4} = \frac{2 \times 4}{4 \times 4} = \frac{3}{6}$$
2 8 3

$$\frac{2}{4} = \frac{8}{16} = \frac{3}{6}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

26. (C) Each mark on the number line has numbers that differ by 5. So, the number that replaces the question mark is 825 + 5 = 830

- 27. (C) 5 angles
- 28. (D) Manish's age = 9 years 9 months

 Age of his brother = 2 years 8 months

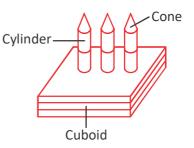
 Total = 9 years 9 months + 2 years 8 months

 = 11 years 17 months

 = 12 years 5 months
- 29. (C) Amount with Naina = ₹45Amount with Vinod = ₹45 + ₹20 = ₹65Total amount = ₹65 + ₹45 = ₹110
- 30. (B) Cost of 1 packet = ₹ 5

 Total amount = ₹ 30
 - No. of packets that can be bought
 = ₹ 30 ÷ ₹ 5 = 6
 In, the offer, 1 packet is given free for every 3 packets
 - \therefore Total no. of packets that can be bought = 6 + 2 = 8
- 31. (A) Sum of the digits in the tens place and ones place = 5 + 1 = 6

 The number I am thinking of is 51

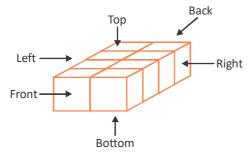


- 32. (C)
- 33. (B) Time on the clock is 3:45



Time now = 4:00

34. (D)



Top and bottom = 8 + 8 = 16 squares Left and right = 4 + 4 = 8 squares Front and back = 2 + 2 = 4 squares 16 + 8 + 4 = 2828 squares are painted

35. (A) 108 - 20 = 88

REASONING

36. (A)



37. (C)



38. (B)

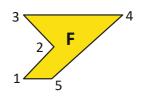


39. (C)

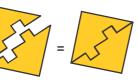


40. (A) A and F





41. (C)



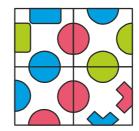
- 42. (A) Fire is extinguished by a fire extinguisher as dirt is removed by a vacuum cleaner.
- 43. (A) Elephant

E◆	- [←	- E
- -	- Z	►T
H -	►Å	К

44. (D)



45. (D)



CRITICAL THINKING

- 46. (B) Aarya > Chinu > Bunny
- 47. (B) We need 5 moves
 - (0) STOP
- (1) STPO
- (2) **SPTO**
- (3) PSTO
- (4) P S O T
- (5) **POST**
- 48. (C) Since the fruit has 3 vowels and 2 consonants, it has 5 letters.

Out of the given options, only "Apple" and "Olive" has 5 letters, in which only "Olive" has 3 vowels and 2 consonants.

49. (A)



50. (B)

