





UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 3

Question Paper Code: UM9267

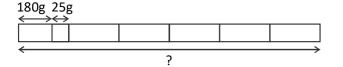
KEY

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

EXPLANATIONS

MATHEMATICS

02. (B)



$$180 g + 25 g = 205 g$$

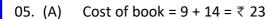
$$205 \text{ g} \times 6 = 1230 \text{ g}$$

She needs to use 1230 g of flour and sugar altogether.

- 04. (C) Cost of rocket = ₹71

 Cost of ball = ₹(71 29) = ₹42

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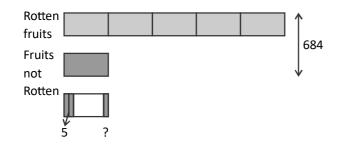


Cost of post cards = ₹ 9

$$=$$
 $?$ 23 \times 2 $+$ $?$ 9 \times 2

It cost ₹64 to buy 2 books and 2 boxes of postcards





Number of fruits that were not rotten

$$= 684 \div 6 = 114$$

Number of bags = $114 \div 5$

$$= 22 R 4$$

Number of fruits unpacked = 4

4 fruits will be left unpacked

08. (C) Capacity of a cup = 200 ml

Capacity of a flask = $200 \times 4 = 800 \text{ m}l$

Capacity of pail = $800 \times 5 = 4000 \text{ m} l = 4l$

A pail can hold 4l of water.

09. (B)
$$\frac{21}{30} = \frac{7}{10}$$

No. of red ballons = 2470 + 120 = 2590

Total balloons = 2590 + 2470 = 5060

11. (B)
$$21 \times 3 = 63$$

$$Sum = 693 + 63 = 756$$

12. (D) Number of parts divided = 14

Number of parts shaded = 8

Fraction of shaded figure = $\frac{8}{14} = \frac{\boxed{4}}{7}$

? = 6 bottles of Mango juice

$$3 \times 3 = 6$$
 bottles of Mango juice

9 bottles of Orange juice = 6 bottles of Mango juice

15. (D)
$$17 - (16 \div 2) = 9$$

$$Sum = 2 + 4 + 6 = 12$$

Second digit = 4

17. (B)
$$15 g + y = 40 g$$

$$y = 40 \text{ g} - 15 \text{ g} = 25 \text{ g}$$

$$y + x = 55 g$$

$$25 g + x = 55 g$$

$$x = 55 \text{ g} - 25 \text{ g} = 30 \text{ g}$$

18. (A) Capacity of the milk jug = 5
$$l$$

No. of glasses she used to pour the milk = 3

Quantity of milk left in the jug = 2 l

$$= 5 l - 2 l = 3 l$$

Capacity of each glass = $3 l \div 3 = 1 l$

19. (D)
$$4 \times 5 = 2 \times 10$$

$$20 = 20$$

No. of cards Ravi had at first = 576 + 88 - 20

$$= 664 - 20 = 644$$

21. (D) The minute hand points to the number 10 on the clock

22. (C) The smallest 4-digit number = 1234

The largest 3-digit number = 987

Their sum =
$$1234 + 987 = 2221$$

- 23. (B) 1 rupee \rightarrow 100 paise $? \rightarrow 3700 \text{ paise}$ $3700 \div 100 = 37 \text{ rupees}$
- 24. (B) 458 ÷ 7

Q = 65, R = 3

Difference = 65 - 3 = 62

- 25. (D) Given digits = 8, 3, 1 and 6

 Smallest odd number = 1683
- 26. (B) 8 out of 20 squares are shaded

 $\therefore \qquad \text{The required fraction is } \frac{8}{20} = \frac{2}{5}$

27. (C) Smallest 3-digit number = 100

Largest 1-digit number = 9

Q = 11, R = 1

- 28. (A) Length of building A = 324 134 = 190 m Length of building B = 324 m Length of building C = 303 m Total length = 190 m + 324 m + 303 m = 817 m
- 29. (A) Cost of 1 plain balloon = ₹12Cost of 1 fancy balloon = ₹16Cost of 5 plain balloons = $₹12 \times 5 = ₹60$ Cost of 5 fancy balloons = $₹16 \times 5 = ₹80$ = ₹80 + ₹60 = ₹140
- 30. (C) 3718, 3871, 7183, 8173
- 31. (B) 1 hr = 60 min $5 \text{ hrs} = 60 \times 5 = 300 \text{ min}$ 300 + 55 = 355 min

- 32. (B)
- 33. (D) If the boy chooses the digit 2, he should occupy the 20^{th} place
- 34. (A) 1 bucket = 3 cups 1 pot = 1 cup + 3 cups + 3 cups 1 pot = 7 cups 1 basin = 3 cups + 7 cups + 7 cups + 7 cups 1 basin = 3 cups + 3 cups + 3 cups + 3 cups + 3 cups
- 35. (A) Option (A) has 10 quarter circles

1 basin = 8 buckets

REASONING

36. (A)

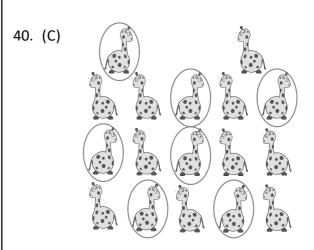


37. (B) In option (B) last two letters positions are different.

513

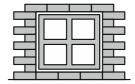


39. (B)



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41. (A)



42. (B)

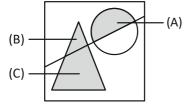


43. (D) Both q & w

44. (D)



45. (D)



CRITICAL THINKING

46. (B) I will give the wallet to my teacher.

47. (C)

48. (B) Z: 4-1=3

 \Rightarrow Z = 3

Y:4+1=5

 $Y:5-3=2 \Rightarrow Y=2$

X:4+3=7

Y has minimum number of chocolates.

49. (C) Number '6' will not be overlapped on square.

50. (A) Option (A): 15 paths

Option (B): 13 paths

Option (C): 12 paths

Option (D): 12 paths