

Bloom Maths Olympiad Sample Paper 1

Maximum Time : 60 Minutes

Maximum Marks : 35

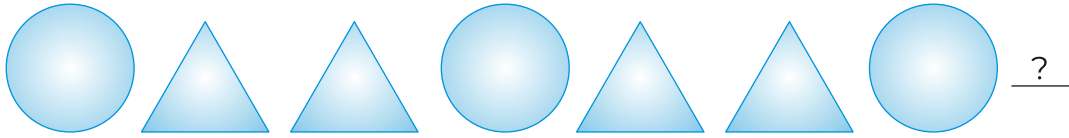
INSTRUCTIONS

1. There will be 35 Multiple Choice Questions in this paper, carrying 1 mark each.
2. Each question has Four Options out of which **ONLY ONE** is correct.
3. All questions are compulsory.
4. There is no negative marking.
5. No electronic devices capable of storing and displaying visual information such as calculator and mobile are allowed during the course of the exam.

School Name

Student's Name

1. Find the next object in the given below pattern

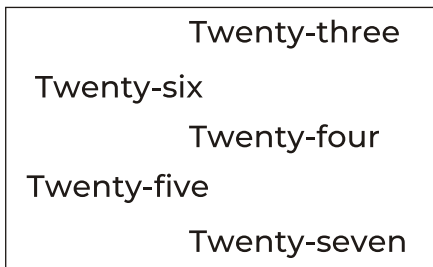


- (a)  (b)  (c)  (d) 

2. Sanjna wants to buy a helicopter toy at ₹ 60. She has ₹ 35. How much more money does she need to buy the helicopter toy?

- (a) 25 ₹ (b) ₹ 30 (c) ₹ 35 (d) ₹ 10

3. Kelvin does counting of the numbers inside the box as shown below.



From which number does he start counting?

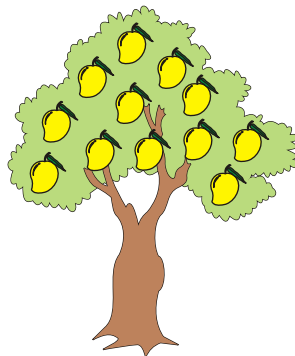
- (a) Twenty-three (b) Twenty-six (c) Twenty-five (d) Twenty-seven

4. A tree has 5 branches. Three such trees will have, how many branches?



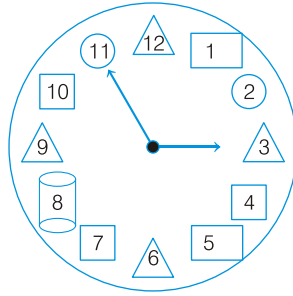
- (a) 10 (b) 5 (c) 25 (d) 15

5. There are 12 mangoes on a tree. Five of them are plucked by the farmer. How many mangoes are left on the tree?



- (a) 7 (b) 5 (c) 17 (d) 12

6. Choose the shape occurring minimum number of times in the given clock.



- (a) Circle (b) Triangle (c) Cylinder (d) Rectangle

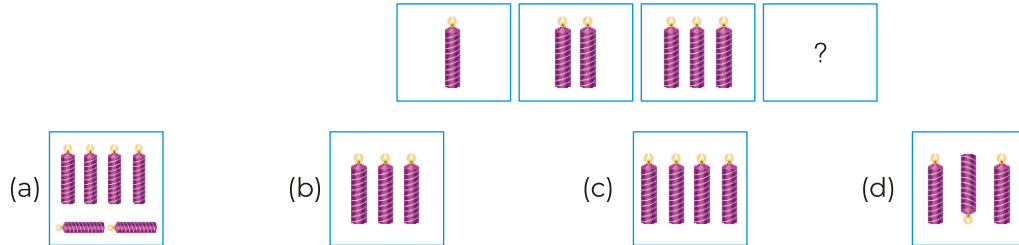
7. Harsh wanted to take a change of ₹ 20. Which set of coins should he take?



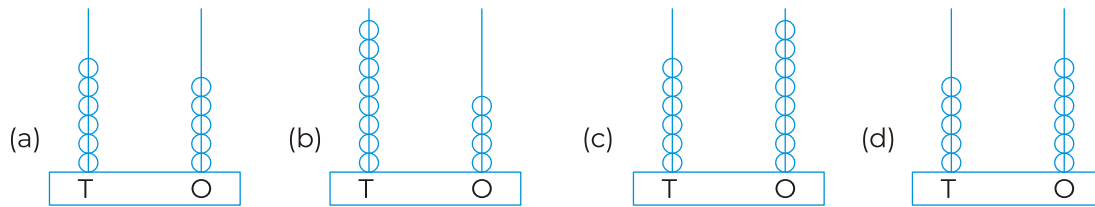
8. Which cone is the shortest?



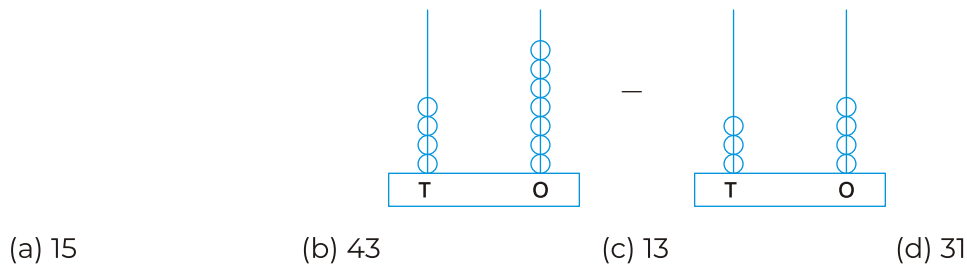
9. Find the next object in place of (?).

























10. Which of the following correctly represents 56?



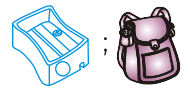

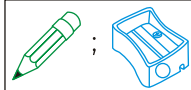
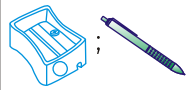
11. Find the value.



Directions (Q. Nos. 12 and 13) Look at the picture graph which is given below and answer the following questions.

				
				
				
				
				
				
Pencil	Eraser	Sharpner	Pen	School bag

12. Which two stationaries are same in number?

- (a)  ; (b)  ; (c)  ; (d) 

13. How many less number of sharpners are there than erasers?

- (a) 2 (b) 4 (c) 3 (d) 1

14. Which is a cone?

- (a)  (b)  (c)  (d) 

15. Which of the following tree is taller than R?



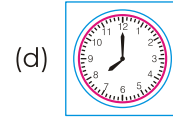
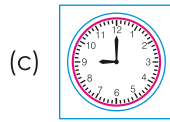
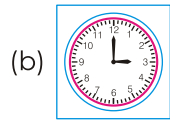
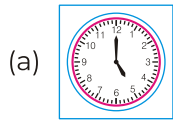
- (a) Q (b) S (c) P (d) All of these

16. Find the missing shape.

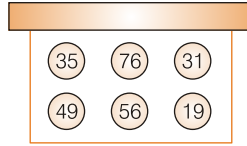


- (a)  (b)  (c)  (d) 

17. Which of the following clock shows 9 O'Clock?



18. The difference between the smallest and the greatest number on the given box is?



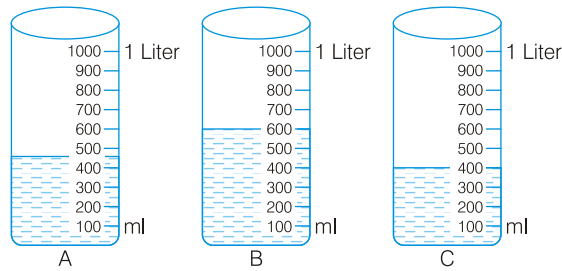
(a) 57

(b) 62

(c) 64

(d) 75

19. Which container contains less than 600 ml of water.



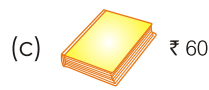
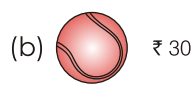
(a) A

(b) B

(c) C

(d) A and C

20. Jack buys two things for ₹ 120. One of them is a pencilbox of ₹ 40, which of the following is the second thing?



21. Which of the following names has the least number of letters?

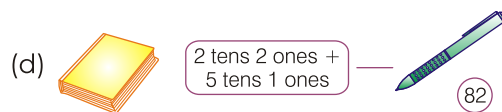
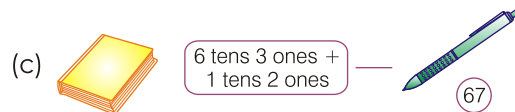
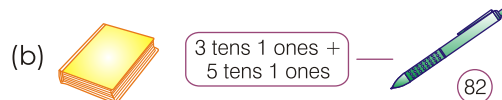
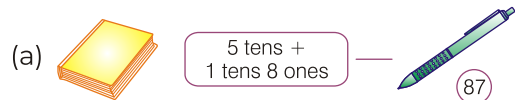
(a) Deepika

(b) Abhishek

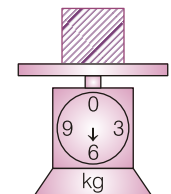
(c) Varsha

(d) Sonu

22. Select the correct option.



23. What is the weight of the box?



(a) 2 kg

(b) 4 kg

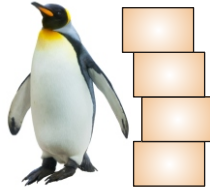
(c) 6 kg

(d) 9 kg

24. Sushil wants to buy  of ₹ 120, but he has ₹ 80. How much more money does he need?









- (a) ₹ 60 (b) ₹ 40
(c) ₹ 45 (d) ₹ 50

25. The height of Penguin is? If one  = 5 cm.



- (a) 20 cm (b) 15 cm
(c) 25 cm (d) 35 cm

26. Match the pair of apple that has same answer and select the correct option.

P.  (8+17)	(a)  (30)
Q.  (11+19)	(b)  (35)
R.  (15+13)	(c)  (25)
S.  (21+14)	(d)  (28)

- (a) P → (b); Q → (c); R → (a); S → (d) (b) P → (c); Q → (a); R → (d); S → (b)
(c) P → (c); Q → (d); R → (b); S → (a) (d) P → (a); Q → (c); R → (d); S → (b)

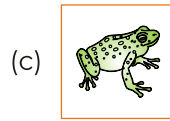
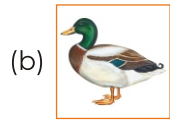
27. Ritika's examination started on second Saturday of February 2018 and lasted for 8 days excluding Sundays.

Her examination finished on February 2018

SUN	MON	TUE	WED	THUR	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					

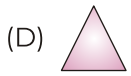
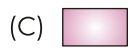
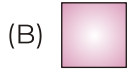
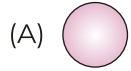
- (a) Saturday (b) Monday
(c) Friday (d) Tuesday

32. Which animal is the most in number?



33. Match the following shapes with their name.

Column I



Column II

1. Rectangle

2. Triangle

3. Square

4. Circle

	A	B	C	D
(a)	4	3	1	2
(c)	4	3	2	1

	A	B	C	D
(b)	3	4	2	1
(d)	2	1	4	3

34. Karishma has ₹ 85 in her piggy bank. She added ₹ 25. Which of the following shows the correct amount in her piggy bank?

(a) ₹ 95

(b) ₹ 100

(c) ₹ 110

(d) ₹ 105

35. The shape of the given photo frame is



(a) Oval

(b) Circular

(c) Square

(d) Triangular

Solutions

1. (d) This is a repeating pattern. A circle is repeating after two triangles. So, triangle will come in place of (?). Hence, option (d) is correct.
2. (a) Cost of toy = ₹ 60
Amount of money Sanjna has = ₹ 35
So, amount of money Sanjna needed to buy the helicopter toy = ₹ 60 – ₹ 35 = ₹ 25
3. (a) In the given box, the least number is twenty-three.
So, Kelvin will start counting from Twenty-three.
4. (d) 1 tree has branches = 5
So, 3 tree has branches = 5 + 5 + 5 = 15
Hence, option (d) is correct.
5. (a) Number of mangoes on tree = 12
Number of mangoes plucked by farmer = 5
So, remaining mangoes on tree = 12 – 5 = 7
Hence, option (a) is correct.
6. (c) Option (a) Circle :
Number of shapes → 2 [on places of 2 and 11 number]
Option (b) Triangle :
Number of shapes → 4 [on places of 3, 6, 9 and 12 number]
Option (c) Cylinder :
Number of shape → 1 [on place of 8 number]
Option (d) Rectangle :
Number of shapes → 2 [on places of 1 and 5 number]
Here, the minimum number of shape is 1, i.e. Cylinder.
Hence, option (c) is correct.
7. (d) Option (a) Coins of denomination = ₹ 5 + ₹ 2 + ₹ 2 = ₹ 9
Option (b) Coins of denomination = ₹ 10 + ₹ 5 + ₹ 2 = ₹ 17
Option (c) Coins of denomination = ₹ 5 + ₹ 1 + ₹ 10 = ₹ 16
Option (d) Coins of denomination is = ₹ 10 + ₹ 5 + ₹ 5 = ₹ 20
So, Harsh will take ₹ 10, ₹ 5 and ₹ 5 set of coins. Hence, option (d) is correct.
8. (d) By observing, option (d) is shortest among other with respect to dimension.
9. (c) The pattern given in question is following a sequence i.e. number of candles is increasing by one.
i.e. 1 → 2 → 3 → 4

Hence, option (c) is correct.

10. (d) For representation of number on abacus, we need to count number of beads of one's and ten's separately. Therefore,

Option (a) represents $\rightarrow 65$

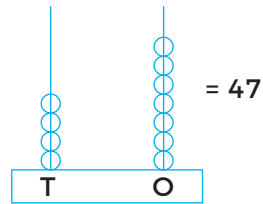
Option (b) represents $\rightarrow 84$

Option (c) represents $\rightarrow 68$

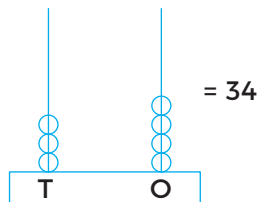
Option (d) represents $\rightarrow 56$

Hence, option (d) is correct representation of 56 on abacus.

11. (c) On first Abacus



and on second Abacus



So, $47 - 34 = 13$

Hence, option (c) is correct.

Rough Work

$$\begin{array}{r} 47 \quad \text{IIIIH} \\ -34 \quad \text{and III} \\ \hline 13 \end{array}$$

12. (a) \because Number of pencils = 3

\because Number of erasers = 6

\because Number of sharpners = 4

\because Number of pens = 5

\because Number of school bags = 4

So, Number of sharpners = Number of school bags = 4

Hence, option (a) is correct.

13. (a) Number of sharpners = 4 and number of erasers = 6

So, number of sharpners less than erasers = $6 - 4 = 2$

Hence, option (a) is correct.

14. (a) Option (a) is correct. It represents the shape of cone.

15. (d) We can clearly see that tree (R) is the smallest. So, Tree P, Tree Q and Tree S are taller than Tree (R).

Hence, option (d) is correct.

16. (a)  is a repeating pattern.

So, will come in the blank.

Hence, option (a) is correct.

17. (c) By option (c)

In a clock, smaller hand → shows hours

Larger hand → shows minutes.

Therefore, clock is showing 9 O' clock.

Hence, option (c) is correct.

18. (a) In the given box, the greatest number = 76

and the smallest number = 19

So, difference = $76 - 19 = 57$

Hence, option (a) is correct.

Rough Work

$$\begin{array}{r} \textcircled{6} \textcircled{16} \\ 76 \\ - 19 \\ \hline 57 \end{array} \quad \begin{array}{l} \text{IIIIIIIIIIIIIIIIII} \\ \text{and IIIII} \end{array}$$

19. (d) Container (A) contains = 460 milliliters

Container (B) contains = 600 milliliters

Container (C) contains = 400 milliliters

Hence, containers A and C contains less than 600 milliliters of water. So, option (d) is correct.

20. (a) Given, cost of pencil box = ₹ 40

Jack buys two things for = ₹ 120

Remaining amount he has = ₹ 120 - ₹ 40 = ₹ 80

In option (a), cost of bag = ₹ 80

So, Jack buys a bag and a pencil box for ₹ 120.

Hence, option (a) is correct.

Rough Work

$$\begin{array}{r} \textcircled{0} \textcircled{12} \\ 120 \\ - 40 \\ \hline 80 \end{array} \quad \text{IIIIIIIIII}$$

21. (d) Option (a), Word Deepika has 7 letters.

Option (b), Word Abhishek has 8 letters.

Option (c), Word Varsha has 6 letters.

Option (d), Word Sonu has 4 letters.

So, correct answer is option (d) with least number of letters.

Hence, option (d) is correct.

22. (b) Option (a), 5 Tens + 1 Tens 8 ones

$$= 5 \times 10 + 1 \times 10 + 8 \times 1 = 50 + 10 + 8 = 68, \text{ which is incorrect.}$$

Option (b), 3 tens 1 ones + 5 tens 1 ones

$$= 3 \times 10 + 1 \times 1 + 5 \times 10 + 1 \times 1 = 30 + 1 + 50 + 1 = 82, \text{ which is correct.}$$

Option (c), 6 tens 3 ones + 1 tens 2 ones

$$= 6 \times 10 + 3 \times 1 + 1 \times 10 + 2 \times 1 = 60 + 3 + 10 + 2 = 75, \text{ which is incorrect.}$$

Option (d), 2 tens 2 ones + 5 tens 1 ones

$$= 2 \times 10 + 2 \times 1 + 5 \times 10 + 1 \times 1 = 20 + 2 + 50 + 1 = 73, \text{ which is incorrect.}$$

Hence, option (b) is correct.

23. (c) As, we can see clearly in weighing machine, arrow indicate at point 6, so the weight of the box is 6 kg.

So, option (c) is correct.


24. (b) We can see from the question,

Cost of toy car = ₹ 120

and Sushil has money = ₹ 80

So, required more money = $120 - 80 = ₹ 40$

Hence, option (b) is correct.

25. (a) Given, one  = 5 cm.

So, height of penguin = 4 blocks = $(5 + 5 + 5 + 5)$ cm = 20 cm

Hence, option (a) is correct.

26. (b) $P \rightarrow 17 + 8 = 25$ (c)

$Q \rightarrow 11 + 19 = 30$ (a)

$R \rightarrow 15 + 13 = 28$ (d)

$S \rightarrow 21 + 14 = 35$ (b)

Hence, option (b) is correct.

27. (b) Second Saturday of February 2018 is 12th of February. Her exams lasts for 8 days excluding sundays.

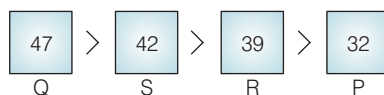
So, her examination finishes on $12 + 7$ working days + 2 Sundays

= 21st February i.e. (Monday)

Hence, option (b) is correct.

28. (a) In Descending order, there is a arrangement of numbers from greatest to smallest.

Descending order of the boxes is



47 is the greatest.

Hence, option (a) is correct.

29. (d) According to the given pattern, 2 is added to the present number to get the next number, i.e. $11 + 2 = 13$;

$13 + 2 = 15$;

$15 + 2 = 17$;

$17 + 2 = \boxed{19}$ is the required answer.

So, option (d) is correct.

30. (b) There is 3 L water already in the glass. Amount of water added to glass to make it 7 L is

$$= 7 \text{ L} - 3 \text{ L} = 4 \text{ L}$$

Hence, option (b) is correct.





Solutions (Q. Nos. 31 and 32)

According to the picture graph,

- Number of dogs = 3
- Number of Ducks = 4
- Number of Frogs = 5
- Number of Rabbits = 2

31. (b) According to above solution,
Rabbits is the least in number among others. i.e. $\rightarrow 2$.
Hence, option (b) is correct.

32. (c) According to above solution,
Frog is most in number. i.e. = 5
Hence, option (c) is correct.

- 33.** (a)  \rightarrow Circle (4) (B)  \rightarrow Square (3)
- (C)  \rightarrow Rectangle (1) (D)  \rightarrow Triangle (2)

So, option (a) is correct.

34. (c) Given, Karishma has amount in her piggy bank = ₹ 85
and amount added by her = ₹ 25
Now, total amount in her piggy bank = $85 + 25 = ₹ 110$
Hence, option (c) is correct.

Rough	① 85
Work	<u>+25</u>
	110

35. (b) Option (b) is correct, photo frame represents a circular shape.