BLOOM | BMO Bloom Maths Olympiad

GRADE 3

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.

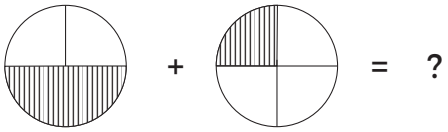
School Name	
Student's Name	

1. 3535 can be written as

(a) $3000 + 500 + 30 + 5$ (b) $300 + 50 + 5$

(c) $3000 + 500 + 5$ (d) $3000 + 50 + 30 + 5$

2. The addition of shaded fractional parts of the following figure is



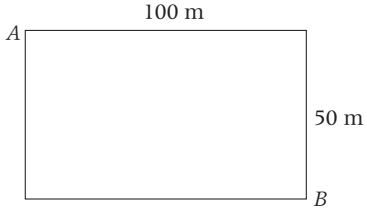
(a) $\frac{3}{4}$ (b) $\frac{2}{4}$ (c) 1 (d) $\frac{1}{4}$

3. Which of the following number makes the equation true?

$$1099 + ... = 1330 + 1650$$

(a) 5014 (b) 5041 (c) 6014 (d) 1881

4. The length of the park is 100 m and breadth of the park is 50 m. Ramesh started running from the point *A* and stopped at point *B* as shown in figure. How much distance Ramesh covered?



(a) 250 m (b) 45 m (c) 155 m (d) 150 m

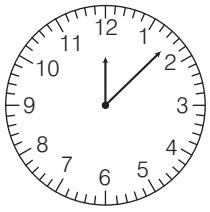
5. Mrs. Saroj had 66 pencils. She distributed 3 pencils to each children. How many children were there?

(a) 21 (b) 22 (c) 23 (d) 24

6. Rakhi has 20 paisa coin, Neha has 50 paisa coin and Sneha has 5 paisa coin. How much paisa they all required to make 1 rupee?

(a) 25 Paisa (b) 20 Paisa (c) 35 Paisa (d) 30 Paisa

7. The minute hand shows ..... minute in the following clock



(a) 8 minute (b) 10 minute

(c) 5 minute (d) None of these

8. Raju has 930 marbles. The place value of 3 is

(a) One's (b) Ten's

(c) Hundred's (d) None of these

9. Five thousand nine hundred two can be written numerically

(a) 5922 (b) 5902 (c) 5920 (d) 5209

10. Find the missing number.

$$432 \div 9 = \_\_\_ \times 4$$

(a) 4 (b) 48 (c) 12 (d) 9

11. What are the names of next two shapes along with the numbers in the following pattern?

(a) 17 Rectangle, 20 Circle (b) 15 Circle, 18 Circle

(c) 18 Circle, 21 Rectangle (d) 18 Rectangle, 21 Rectangle

12. The sum of two numbers is 9999. One number is 2352. The other number is

(a) 7647 (b) 7456 (c) 7745 (d) 7458

13. A box contains 123 pencils. How many pencils will come in 22 boxes?

(a) 2076 (b) 2008

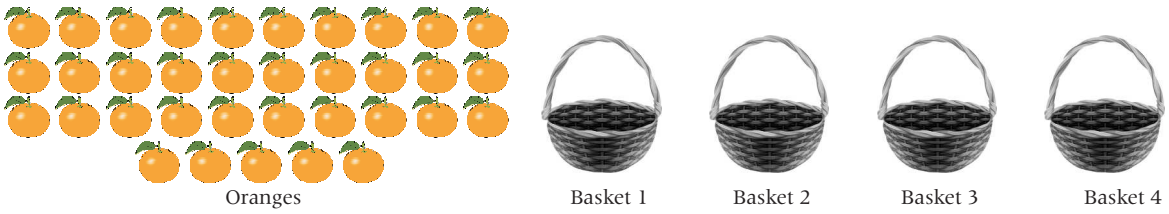
(c) 2706 (d) 2070

14. How many seconds are there in 1 h and 10 min?

(a) 4000 sec (b) 4200 sec

(c) 4100 sec (d) None of these

15. Raju has 35 oranges.He wants to put equal number of oranges in four different baskets. How many oranges will remain left?



(a) 3 (b) 1 (c) 4 (d) 5

16. Find the odd one out from the given fractions.

(a) $\frac{6}{7}$ (b) $\frac{8}{11}$ (c) $\frac{5}{9}$ (d) $\frac{6}{5}$

17. Number 8868 is ..... more than number 8068.

(a) 80 (b) 800 (c) 8000 (d) 68

18. Suchitra has 3 plates of laddoos as shown in figure. He wants to put them equally in three plates.

What should be number of laddoos in each plate?

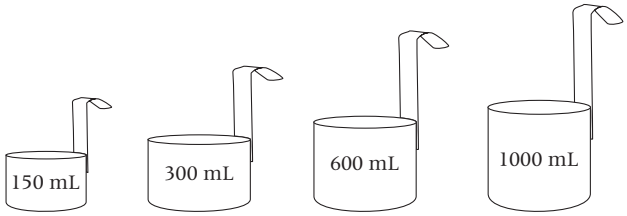
(a) 7 (b) 9 (c) 5 (d) 6

19. Find the missing number.

56, 47, 38, ..., 20, 11

(a) 28 (b) 29 (c) 27 (d) 31

20. Which is suitable for measuring 8 L of milk?

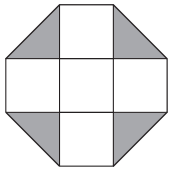


(a) 150 mL (b) 300 mL (c) 600 mL (d) 1000 mL

21. Which one of the following is not a leap year?

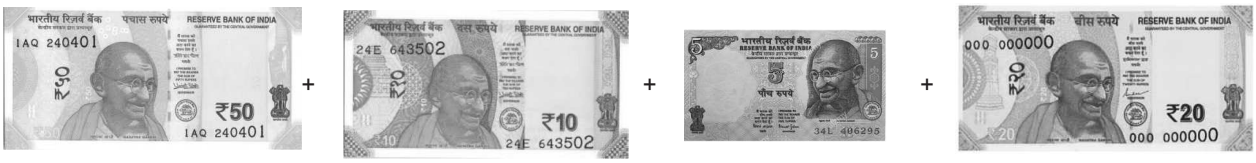
(a) 2020 (b) 2015 (c) 2008 (d) 2000

22. What fraction of the figure is shaded?



(a) $\frac{2}{7}$ (b) $\frac{4}{9}$ (c) $\frac{4}{7}$ (d) $\frac{5}{9}$

23. The toy costs ₹ 93. Do you have enough money to buy it?



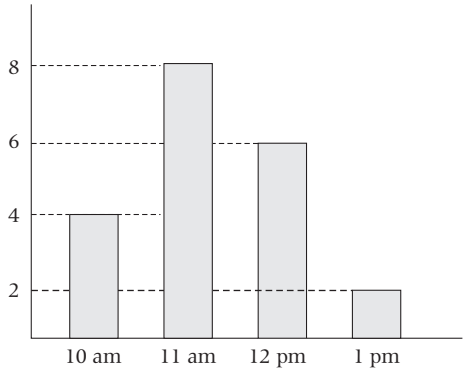
(a) Yes (b) No

(c) Can't say (d) None of these

24. Ajay had 7 blue balls in a bag. He put 5 more red balls in the bag. What fractions of the ball were red?

(a) $\frac{5}{7}$ (b) $\frac{7}{5}$ (c) $\frac{5}{12}$ (d) $\frac{7}{12}$

Directions (Q. Nos. 25 and 26) *Suresh's watchman gets a duty of recording the number of trucks parked in the parking at different timings. He made a bar graph. Read the graph carefully and give the right answers.*

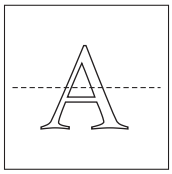
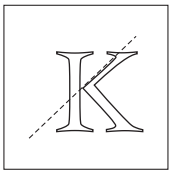
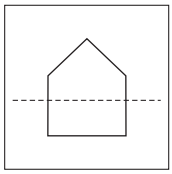
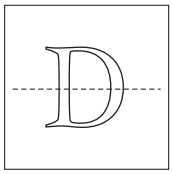


25. How many trucks are parked at 11.00 am?
(a) 2 (b) 4 (c) 6 (d) 8

26. What is the difference between the trucks parked at 10:00 am and 12:00 pm?
(a) 1 (b) 2 (c) 3 (d) 4

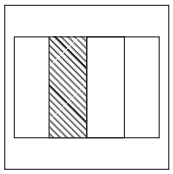
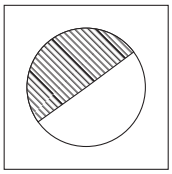
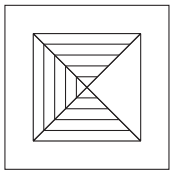
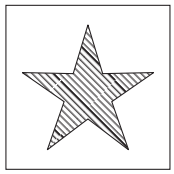
27. If Jyoti studies for 9 h and 30 min a day. How many minutes she is spending on studies per day?
(a) 460 min (b) 500 min (c) 520 min (d) 570 min

28. Identify the symmetrical figure with the dotted line as the line of symmetry.

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

29. If Rohan has 72 Bananas. How many dozens Banana does Rohan have?
(a) 7 (b) 6 (c) 5 (d) 4

30. Which shape is shown as one-fourth shaded part?

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

31. Riya is calculating her hours of study time per day. If she is calculating 144 h in 12 days. How many hours she is studying per day?
(a) 5 h (b) 12 h (c) 7 h (d) 8 h

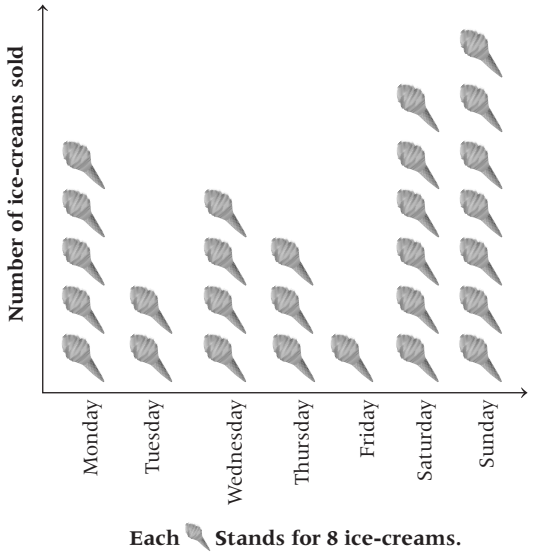
32. Which one of the following is the smallest number?
(a) Three thousand one hundred sixteen (b) Three thousand one hundred twenty four
(c) Three thousand two hundred six (d) Three thousand three hundred ninety

33. Find the value of $X + Y$.

$$\begin{array}{r} 6\,7\,4\,X \\ -\ \underline{4\,Y\,1\,2} \\ 2\,4\,3\,7 \end{array}$$

(a) 11 (b) 15
(c) 10 (d) 12

Directions (Q. Nos. 34 and 35) *The following pictograph shows the number of ice-creams sold at a shop in a week.*



Each Stands for 8 ice-creams.

34. On which day were 40 ice-creams sold?

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

35. Number of ice-cream sold on Tuesday, Thursday and Friday together.

(a) 32 (b) 48
(c) 50 (d) 44

Solutions

1. (a) Option (a) is correct.

$\Rightarrow$ $3000 + 500 + 30 + 5 = 3535$

Option (b) is incorrect.

$\Rightarrow$ $300 + 50 + 5 = 355$

Option (c) is incorrect.

$\Rightarrow$ $3000 + 500 + 5 = 3505$

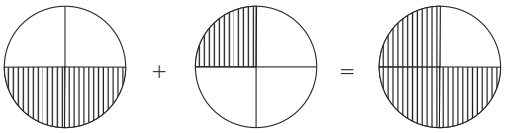
Option (d) is incorrect.

$\Rightarrow$ $3000 + 50 + 30 + 5 = 3085$

Hence, option (a) is correct.

2. (a) The sum of shaded fractional parts $= \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

In picture form,



So, option (a) is correct.

3. (d) $1099 + ? = 1330 + 1650$

$1099 + ? = 2980$

$\Rightarrow$ $? = 2980 - 1099 = 1881$

Option (d) is correct.

Rough Work

$$\begin{array}{r} 1330 \\ +1650 \\ \hline 2980 \end{array} \quad \text{and} \quad \begin{array}{r} 2980 \\ -1099 \\ \hline 1881 \end{array}$$

4. (d) Distance covered by Ramesh between points A and $B = 100\text{ m} + 50\text{ m} = 150\text{ m}$.

So, option (d) is correct.

5. (b) Number of pencils Mrs. Saroj had $= 66$

Number of pencils distributed to each children $= 3$

$\therefore$ Number of children

= Pencils Mrs. Saroj has $\div$ Pencils distributed to children

$= 66 \div 3 = 22$

Option (b) is correct.

Rough Work

$$3\overline{)66}(22$$
$$\underline{6}$$
$$6$$
$$\underline{6}$$
$$\times$$

6. (a) Rakhi has coin $= 20$ Paisa

Neha has coin $= 50$ Paisa

and Sneha has coin $= 5$ Paisa

$\therefore$ Total money they have $= 20$ Paisa $+ 50$ Paisa $+ 5$ Paisa $= 75$ Paisa

$\therefore$ Paisa required to make ₹ 1 $=$ ₹ 1 $-$ 75 Paisa

$= 100$ Paisa $- 75$ Paisa $= 25$ Paisa

So, option (a) is correct.

7. (a) We can clearly see,
Short hand of clock is called hour hand.
Long hand of clock is called minute hand.
The minute hand shows 8 minute.
So, option (a) is correct.

8. (b) If we check the placing of 930 in the place value chart, we see that 3 lies in ten's place

9	3	0
Hundred's	Ten's	One's

Therefore, option (b) is correct.

9. (b) Five thousand nine hundred two
$= \text{Five thousand} + \text{Nine hundred} + \text{Two}$
$= 5000 + 900 + 2 = 5902$
Hence, option (b) is correct.

10. (c) $432 \div 9 = ? \times 4$
$\Rightarrow \quad 48 = ? \times 4$
$\Rightarrow \quad 48 \div 4 = 12$
$\because$ Option (c) is correct.

Rough Work

$$9\overline{)432}(48 \qquad 4\overline{)48}(12$$
$$\underline{36} \qquad \text{and} \qquad \underline{4}$$
$$72 \qquad\qquad 8$$
$$\underline{72} \qquad\qquad \underline{8}$$
$$\times \qquad\qquad \times$$

11. (c) The figure pattern given in question is a repeating pattern.
$\therefore$ □ ○ is in repeating pattern and number is increasing by 3.
Next term is '18' circle and then '21' rectangle.
Hence, option (c) is correct.

12. (a) One number = 2352
Second number = ?
$\text{Sum} = \text{One number} + \text{Second number}$
$9999 = 2352 + \text{Second number}$
$\therefore \quad \text{Second number} = 9999 - 2352 = 7647$
$\therefore$ Option (a) is correct.

Rough Work

$$\begin{array}{r} 9999 \\ -2352 \\ \hline 7647 \end{array}$$

13. (c) Number of pencils in 1 box = 123
Number of pencils in 22 boxes $= 123 \times 22 = 2706$
$\therefore$ Hence, option (c) is correct.

Rough Work

$$\begin{array}{r} 123 \\ \times 22 \\ \hline 246 \\ 246\times \\ \hline 2706 \end{array}$$

14. (b) As we know,

$$1 \text{ min} = 60 \text{ sec}$$
$$1 \text{ h} = 60 \text{ min}$$

So, $1 \text{ h } 10 \text{ min} = 60 \text{ min} + 10 \text{ min} = 70 \text{ min}$

$$= 70 \times 60 \text{ sec} = 4200 \text{ sec}$$

Hence, option (b) is correct.

15. (a) Total number of oranges $= 35$

Number of baskets $= 4$

$\therefore$ Number of oranges in one basket = Total oranges $\div$ Number of baskets $= 35 \div 4$

$\Rightarrow$

```
4) 35 (8
   32
    3 Remaining
```

$\therefore$ We can put 8 oranges in 4 basket each and 3 oranges will left.

So, option (a) is correct.

16. (d) We can see, all fractions are proper except option (d).

Option (d) is improper fraction.

17. (b) $\therefore 8868 - 8068 = 800$

So, 8868 is 800 more than 8068.

Option (b) is correct.

Rough Work	8868 −8068 800

18. (d) Total number of laddoos $= 6 + 10 + 2 = 18$

Number of plates $= 3$

Number of laddoos in each plate $= 18 \div 3 = 6$

Hence, option (d) is correct.

19. (b) The pattern given in question, follow rule of subtraction of 9 from each term to get the next term. i.e.

$56 - 9 = 47$

$47 - 9 = 38$

$38 - 9 = \boxed{29}$ Required answer

$29 - 9 = 20$

$20 - 9 = 11$

So, option (b) is correct.

20. (d) $1 \text{ L} = 1000 \text{ mL}$

$\therefore \quad 8 \text{ L} = 8 \times 1000 = 8000 \text{ mL}$

For measuring 8 L of milk, we need to use measuring container of perfect divisor of 8000 mL.

Hence, option (d) is correct answer.

21. (b) For checking the leap year, we divide the given year by 4. If it completely divisible by 4, then it is a leap year.

Hence, option (b) is only option which is not completely divisible by 4.

All other are leap year except 2015 i.e. option (b).

Hence, option (b) is correct.

22. (a) Total number of parts $= 7$ ($\because$ 4 triangles make 2 squares)

Number of parts shaded $= 2$

The required fraction $= \frac{2}{7}$

So, option (a) is correct.

23. (b) If we add the money, given in question, then we get $= ₹\,50 + ₹\,10 + ₹\,5 + ₹\,20 = ₹\,85$

and cost of toy $= ₹\,93$

So, we don't have enough money to buy it.

Hence, option (b) is correct.

24. (c) Number of blue balls $= 7$

Number of red balls $= 5$

Total balls $= 7 + 5 = 12$

$\therefore$ Fraction of red balls $= \frac{\text{Number of red balls}}{\text{Total balls}} = \frac{5}{12}$

Hence, option (c) is correct.

25. (d) Number of trucks parked at 11 am is 8.

So, option (d) is correct.

26. (b) Number of trucks parked at 10 : 00 am $= 4$

Number of trucks parked at 12 : 00 pm $= 6$

$\therefore$ Difference $= 6 - 4 = 2$

Hence, option (b) is correct.

27. (d) As we know,

$1\text{ h} = 60\text{ min}$

$9\text{ h} = 60 \times 9 = 540\text{ min}$

$\therefore$ Total time Jyoti spending on studies is

$540\text{ min} + 30\text{ min} = 570\text{ min}$

Hence, option (d) is correct.

Rough Work

$$\begin{array}{r} 60 \\ \times 9 \\ \hline 540 \end{array} \qquad \begin{array}{r} 540 \\ +30 \\ \hline 570 \end{array}\ \text{min}$$

28. (d) Only option (d) is symmetrical about the dotted line.

29. (b) Number of Bananas Rohan has $= 72$

$\because$ 1 dozen $= 12$

Number of dozens = Total Bananas $\div 12 = 72 \div 12 = 6$

Hence, option (b) is correct.

30. (a) Option (a)  $= \frac{1}{4}$

Option (b)  $= \frac{1}{2}$

Option (c)  $= \frac{3}{4}$

Option (d)  $= 1$

So, option (a) is correct and showing one-fourth shaded part.

31. (b) Total number of hours $= 144$

$\therefore$ Number of hours per day = Total number of hours $\div$ Number of days.

$\Rightarrow \quad 144 \div 12 = 12$

Hence, option (b) is correct.

Rough Work

12)144(12
12
24
24
×

32. (a) Option (a), Three thousand one hundred sixteen $= 3116$

Option (b), Three thousand one hundred twenty four $= 3124$

Option (c), Three thousand two hundred six $= 3206$

Option (d), Three thousand three hundred ninety $= 3390$

On comparing, 3116 is smallest number.

So, option (a) is correct.

33. (d) $X - 2 = 7$

$X = 7 + 2 \Rightarrow 9 = X$

$7 - Y = 4$

$Y = 3$

So, $X + Y = 9 + 3 = 12 \rightarrow$ Required answer

So, option (d) is correct.

34. (c) Number of  on Monday $= 5$

and 1  stands for $= 8$

$\therefore$ Total ice-cream sold on Monday $= 5 \times 8 = 40$

So, option (c) is correct.

35. (b) Number of  sold on Tuesday + Thursday + Friday $= 2 + 3 + 1 = 6$

Total number of ice-cream sold $= 6 \times 8 = 48$

So, option (b) is correct.