

# CBSE Sample Paper Maths Set-A <br> Class 6 

## Set- A Answers

## Section - A

1. 97
2. True
3. Symbol of arc is
4. Diameter $=2 \times$ radius
$\therefore \quad$ Radius $=3.56 \mathrm{~cm}$
5. -22
6. $\mathrm{XIX}+\mathrm{XXX}=19+30=49$
7. A circle is made up of four quadrants, where each quadrant is of 90 degrees.

Since, the semicircle is half of the circle, so it will have two quadrants. Hence, half of a semicircle will have only one quadrant
8. Adding 1 to the integer we get the successor. So successor of $-100=-100+1=-99$

## Section - B

9. $(-7)+(-2)=-9$
$-9<-3$
10. a)Cone
b) Sphere
11. a) $5030>5003$
b) $1370>1307$
12. 

Place value of 7 in $9,87,964=7000$
Face value of 7 in $9,87,964=7$


Difference $=7000-7$

$$
=6993
$$

13. $11,13,17,19$
14. Length of the box $=5$ times height

$$
=5 \mathrm{hcm} .
$$

Breadth of the box $=(5 \mathrm{~h}-20) \mathrm{cm}$.
15. $(-43)-(-54)=-43+54=11$
$(-54)-(-43)=-54+43=-11$
$11>-11$

$$
(-43)-(-54)>(-54)-(-43)
$$

16. a) False. It is greater $90^{\circ}$.
b) True.
c) False. Straight angle is equal to half of a revolution.

Or,

$$
B D=2 B A+A D
$$

$$
=2 \times 3+2.5=6+2.5=8.5 \mathrm{~cm}
$$

$\mathrm{LM}=3 \mathrm{LP}-\mathrm{PM}$
$=3 \times 4-1.5=12-1.5=10.5 \mathrm{~cm}$

Therefore, $\quad$ LM > BD
17. 1) $\angle$ DOE, $, \angle_{\text {EOF }}, \angle_{\text {DOF }}$
2) $O$
3) Ray OD, Ray OE, Ray OF
18. Given no $\rightarrow 438750$

## DIVISIBILITY BY

$2 \rightarrow$ Yes, since units place is even.
$4 \rightarrow$ No, since the number formed by last 2 digits is 50 which is not divisible by 4 .
$5 \rightarrow$ Yes, since units place is 0
19. Number of packs of (white + blue) T-shirts bought $=3+5$

Total number of T-shirts bought $=12 \times(3+5)=12 \times 8=96$
20. Given number is 376948

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| :---: | :---: |

Sum of the digits at odd places (from the right) $=8+9+7=24$

Sum of the digits at even places (from the right) $=4+6+3=13$

Difference $=24-13=11$

Since the difference is divisible by 11, therefore 376948 is divisible by 11.

Or, Multiples of 8 are $8,16,24,32,40,48,56,64,72, \ldots$

Multiples of 12 are 12, 24, 36, 48, 60, 72, ...

Therefore, the first three common multiples of 8 and 12 are 24,48 , and 72 .
21. Amount collected on the first day $=$ Rs $250 \times 15=$ Rs 3750

Amount collected on the next day $=$ Rs $250 \times 20=$ Rs 5000
Total amount collected $=$ Rs $(3750+5000)=$ Rs 8750
22. Number of votes the successful candidate registered $=4,67,350$

Number of votes the rival secured

$$
=2,18,800
$$

Margin of votes $=4,67,350$
$-2,18,800$
$2,48,550$

The successful candidate won the election by a margin of $2,48,550$ votes.

23. The total number of mangoes in a small box $=r$ | Total number of mangoes in |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mangoes |  |  |  |  |  |
| still |  | smaller | boxes | $=$ | $2 r$ |

So,
total number of mangoes in the larger box $=(2 r+9)$
24.


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| :---: | :---: |
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From the figure, it is clear that $A C=B C=P C=r$
25.

| Quadrilaterals | Opposite sides |  | All sides Equal | Opp Angles Equal | Diagonals |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Parallel | equal |  |  | Equal | Perpendicular |
| a)Parallelogram | $\checkmark$ | $\checkmark$ | X | $\checkmark$ | X | X |
| b)Rectangle | $\checkmark$ | $\checkmark$ | X | $V$ | $\checkmark$ | X |
| c)Square | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| d)Rhombus | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | X | $\checkmark$ |

26. 

(i)

(ii)

27. (i) OB, OL, OA and OC
(ii) BC
(iii) BC or DE
(iv) minor segment DE (shaded portion)
28. First we find the L.C.M of 6, 8, 9

| 2 | $6,8,9$ |
| :---: | :---: |
| 2 | $3,4,9$ |
| 2 | $3,2,9$ |
| 3 | $3,1,9$ |
| 3 | $1,1,3$ |
|  | $1,1,1$ |

LCM $=2 \times 2 \times 2 \times 3 \times 3=72$
Smallest 4-digit number $=1000$

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| :--- | :--- |

$1000=72 \times 13+64$
When 1000 is divided by 72,64 is the remainder 8 needs to be added to 1000 , so that it is fully divisible by 72 .
$\therefore$ Required number $=1000+8=1008$

Or,

First we find the L.C.M of 20, 40, and 75

| 2 | $20,40,75$ |
| :--- | :--- |
| 2 | $10,20,75$ |
| 2 | 5,1075 |
| 5 | 5,575 |
| 5 | 11,15 |
| 3 | $1,1,3$ |
|  | $1,1,1$ |

LCM $=2 \times 2 \times 2 \times 5 \times 5 \times 3=600$

Least 5 digit number $=10000$
600) $\frac{16}{10000}$

600
4000
3600
400
29. We have to find the H.C.F of 3675,2100 and 1050.
H.C.F. of 3675 and 2100
2100) 3675(1
$\underline{2100}$
1575)2100(1

1575 525)1575(3
$\frac{1575}{x}$

H.CF $(3675,2100)=525$
H.C.F of 525 and 1050
525) 1050(2
$\frac{1050}{x}$
H.C.F of 525 and $1050=525$

The length of the tape which can measure the three dimensions of the hall exactly is 525 cm .
30. Population of the town $=9,75,689$

After $1^{\text {st }}$ year's increase $=9,75,689$

$$
\begin{array}{r}
+4563 \\
\hline
\end{array}
$$

9,80,252

After $2^{\text {nd }}$ year's decrease $=9,80,252$

- 8976

9,71,276
$\therefore$ Population of the town at the end of the second year $=9,71,276$
31.

32.
a. $-p-8$

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| :--- | :--- |

b. $q+(p+4)$
c. Let the no. be $r$. Then, required expression is $3 r+5$.
d. $\frac{y}{4}+z$
33.

First we find the sum of $x+y^{2}$ and $x^{2}+2 x y$

$$
\begin{aligned}
& =\left(x+y^{2}\right)+\left(x^{2}+2 x y\right) \\
& =x^{2}+y^{2}+2 x y+x
\end{aligned}
$$

Now, $\left(x^{2}+y^{2}+x y+y\right)-\left(x^{2}+y^{2}+2 x y+x\right)$

$$
=x^{2}+y^{2}+x y+y-x^{2}-y^{2}-2 x y-x
$$

$$
=y-x y-x .
$$

34. Product of two numbers $=504347$
one number
$=317$

The other number can be obtained by dividing 504347 by 317.

```
    1591
317\longdiv{504347}
```

317
1873
1585
2884
$\underline{2853}$
317
317

Therefore, the other number $=1591$.

