

CBSE Sample Paper Maths Set-A Class 6

Set- A Answers

Section - A

1. 97

- 2. True
- 3. Symbol of arc is —
- 4. Diameter = 2 \times radius
 - · Radius = 3.56 cm
- **5.** -22
- **6.** XIX + XXX = 19 + 30 = 49
- 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

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Difference = 7000-7 = 6993 **13.** 11, 13, 17, 19 **14.** Length of the box = 5 times height = 5h cm.Breadth of the box = (5h - 20) cm. **15.** (-43) - (-54) = -43 + 54 = 11(-54) - (-43) = -54 + 43 = -1111 > -11 (-43) - (-54) > (-54) - (-43) 16. a) False. It is greater 90°. b) True. c) False. Straight angle is equal to half of a revolution. Or, BD = 2BA + AD $= 2 \times 3 + 2.5 = 6 + 2.5 = 8.5$ cm LM = 3 LP - PM $= 3 \times 4 - 1.5 = 12 - 1.5 = 10.5$ cm Therefore, LM > BD 17. 1) \angle DOE, \angle EOF, \angle 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, ...

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 250×15 = Rs 3750Amount collected on the next day = Rs 250×20 = Rs 5000Total amount collected = Rs (3750 + 5000) = Rs 8750

22. Number of votes the successful candidate registered = 4,67,350Number 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 number total of mangoes in small а box r Total number of mangoes in 2 smaller boxes 2r still left 9 Mangoes So,

total number of mangoes in the larger box = (2r + 9)

24.





figure, AC BC PC From the it is clear that = = = r AB = AC BC + d = r + r d = 2r.

25.

Quadrilaterals	Opposite sides		All sides Equal	Opp Angles Equal	Diagonals		
	Parallel	equal			Equal	Perpendicular	
a)Parallelogram	V	V	Х	\checkmark	Х	Х	
b)Rectangle	V	V	Х	\checkmark	\checkmark	Х	
c)Square	V	V	V	\checkmark	\checkmark	\checkmark	
d)Rhombus		V	V	\checkmark	Х	\checkmark	

26.



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





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.

••• 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, 10 75
5	5, 5 75
5	1 1, 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



29. We have to find the H.C.F of 3675, 2100 and 1050. H.C.F. of 3675 and 2100

2100) 3675(1 <u>2100</u> 1575)2100(1 <u>1575</u> 525)1575(3 <u>1575</u> X



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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 1st year's increase= 9,75,689 <u>+ 4563</u> 9,80,252

After 2nd year's decrease = 9,80,252

<u>- 8976</u>

9,71,276

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

31.

Cost	of	1	black–bo	ard	=	Rs		450
· · Cost	of	70 bl	ack-boards	=		450	Х	70
			=		Rs			31,500
			Cost	of	1	chair =	Rs	225
<i>.</i>	Cost	of	40 C	hairs	=	225	Х	40
						=	Rs	9000
· · · Total	am	ount	needed		to	buy	/	70
black-boards		and <u>+ 9000</u>	40	ch	airs	=		31,500
		40.500						

32.

a. - p **-** 8



b.q+(p+4)

c. Let the no. be r. Then, required expression is 3r + 5.

d.
$$\frac{y}{4} + z$$

33.

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

$$= (x + y^{2}) + (x^{2} + 2xy)$$
$$= x^{2} + y^{2} + 2xy + x$$

Now, $(x^2 + y^2 + xy + y) - (x^2 + y^2 + 2xy + x)$

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

34. Product of two numbers = 504347

one number = 317

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

 $\begin{array}{r} 1591 \\
 317) \overline{504347} \\
 317 \\
 1873 \\
 1585 \\
 2884 \\
 2853 \\
 317 \\
 317 \\
 \underline{317} \\
 \times
 \end{array}$

Therefore, the other number =1591.

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