

Baroda High School, ONGC – Primary Section Morning Shift – (2023 – 24)

Class: VIII Work Sheet Sub: Mathematics

Choose the correct op	tion :			
1. A simple closed cur	ve made up of o	only line segments is cal	led a	
(a) Circle	(b) Polygon	(c) Line segment	(d) None of th	em
length of AB and (a) 25 cm & 50 3.Which of the followi a)Square b)Kite 4)Which of the followi a) Rectangle b)Kite of 5)What is the maximu a) 1 b) 2 c) 3 d) 4	BC ? Ocm (b) 40 ng diagonals bis c)Trapezium ing all angles are c)Trapezium (d) m number of ob	cm & 37.5 cm (c) 6 ect each other (d) rectangle equal parallelogram tuse angle that a quadi	2.5 cm & 37.5 cm	If the perimeter is 200 cm, what is the (d) 60 cm & 62.5 cm ag n sides) by joining the vertices
is a a) Rhombus b) p 8) Which is the smalle	ose all sides are e parallelogram st 3-digit perfect	c) square d) none of	·	diagonal bisect each other at right angle
a) 2826 b) 7779 11) The perfect square a) 35 b) 39	12.25 is	en 30 and 40 is	ber?	
12) How many natural a) 15 b) 19 c) 1 13) $\sqrt{0.9} = $ a) 3 b) 0.3 14) What will be the u a) 4 b) 6 c) 2 c 15) Find the cube root	.8 d)17 _ c. 0.03 d.0.3: nit digit of the c d) 8		g with 6?	
a) 3 b) 0.3 c) 16) What will be the p a) 1/2 b) 2 c) 4/2	0.003 d) none robability of get 2 d) 5/2 bility of getting t	of these ting odd numbers if a d the sum as a prime num		e thrown?

18) What will be the probability of losing a game if the winning probability is 0.3?

a) 0.5 b) 0.6 c) 0.7 d) 0.8

Answer the following

- 1. Find the square root of 64002.
- 2.Is 90 a perfect square?
- 3 .Is 2352 a perfect square? If not find the smallest multiple of 2352 which is aperfect square. Find the square root of the new number.4.
- 4. Find the smallest number by which 9408 must be divided so that the quotient is a perfect square. Find the square root of the quotient.5.
- 5. Without doing any calculation, find the numbers which are surely not perfect square.
- i.) 153 ii.) 257 iii) 408 iv.) 4416.
- 6. Find the square root of the following numbers by the prime factorisation method.i.) 400 ii.) 9604 iii.) 8100 iv.) 1764 v.) 5929 vi.) 92167.
- 7.For each of the following numbers, find the smallest whole number by which it should be multiplied so as to get a perfect square. also find the square root of the square number so obtained.i.) 252 ii.) 2925 iii.) 396 iv.) 2028 v.) 1458 vi.) 7688.
- 8. For each of the following number, find the smallest whole number by which it should be divided so as to get a perfect square. Also find the square root of the square number so obtained.i.) 252 ii.) 180 iii.) 1008 iv.) 2028 v.) 1458 vi.) 7689.
- 9. The students of class viii of a school donated Rs 2401 in all, for prime minister's national relief fund. each student donated as many rupees as the no: of students in the class. Find the no: of students in the class.10.
- 10.2118 plants are to be planted in a garden in such a way that each row contains as many plants as the no. of rows. Find the no: of rows and the no: of plants in each row.
- 11. What is the sum of all the angles of regular pentagon
- 12. What is the sum of all the angles of regular hexagon
- 13. What is the sum of all the angles of regular heptagon
- 14. If the two adjacent angle of a parallelogram are (5x-5) and (10x+35) then the ratio of these angles is what?
- 15. Evaluate $\sqrt[3]{21.97} + \sqrt{0.0049}$
- 16. The following table shows the expenditure pattern of a family:

Items	Food	Clothing	Rest	Education	Miscellaneous	
Expenditure (in	3500	2000	1500	2500	1000	
Rs.))						

Draw a bar graph to represent the above data.

- 17. Find the cube root of 0.000512.
- 18. Find the cube root of $\left(-\frac{729}{2197}\right)$.
- 19. ABCD is a rhombus with $\angle ABC = 126$ determine $\angle ACD$.
- 20. The adjacent angles of a parallelogram are as 2:3 find the measure of its all angles.
- 21. The perimeter of a parallelogram is 150 cm. One of its side is greater than the other by 25 cm. F ind the lengths of all sides of the parallelogram.
- 22.A box of 72 coloured balloons contains the following numbers of each column. Draw a pie chart to show this information.

Colour	Red	Yellow	Green	Blue
Number of Balloons	12	24	20	16

- 23. A spinner having the numbers 2,3,4,5,6,7 is spun. What is the probability of getting
 - (a) 4
 - (b) a prime number?
 - (c) an even number?

24.Draw histograms for the following frequency distribution

Class interval	0-5	5-10	10-15	15-20	20-25
Frequency	10	25	9	20	5