VIII CLASS

1. $\frac{8}{15} \div \frac{2}{3}$ = _____
2. Rational form of 0.45 is _____
3. $3^0 + 4^0 + 5^0$ = _____
4. (-20) x (1.85) = _____
5. The sum of $\frac{-2}{5} + \frac{3}{2}$ is _____
6. $\frac{-5}{12}$ + _____ = -1
7. Decimal form of $\frac{12.5}{4}$ is _____
8. Number of rational numbers between $\frac{1}{2}$ *and* $\frac{1}{4}$ are _____
9. Value of $2^{-3} \times 5^{-3}$ = _____
10. Compare $\frac{13}{-8}$ and $\frac{-27}{12}$, which is lesser ? _____
11. The product of $\frac{3}{8}$ *and* $\frac{-5}{7}$ is _____
12. 2.56 ÷ 1.6 = _____
13. Period of $0.1\overline{23}$ is _____
14. Express $\frac{240}{-840}$ in standard from _____
15. _____ should be subtracted from $\frac{5}{9}$ to get $\frac{2}{3}$
16. The product of $\frac{25}{14}$ and multiplicative inverse of $\frac{5}{7}$ is _____
17. If a = 2, b = 3, and c = 1 find the value of $a^2 + 2(b^2 + c^2)$ = _____
18. The area of a square is 256 sq. cms. Its perimeter is _____ (units)

    A) 16 B) 32 C) 48 D) 64
19. Degree of $4x^3 + 3x^2 - 7x + 1$ is _____
20. Degree of your phone number is _____
21. The zero of the polynomial ax + b is _____
22. If $\frac{x}{2} - 1 = 3$ then x = _____
23. $\left(\frac{5}{3}\right)^{-5} \times \left(\frac{5}{3}\right)^{-11} = \left(\frac{5}{3}\right)^{8x}$ then x = _____

24. Sum of three consecutive integers is 24 then the integers are _____

25. Between what two consecutive integers will – 1.32 lies ? _____

26. $4x^3 - 3x^3 + 14x^3$ = _____

A) $-15x^3$ B) $14x^3$ C) $17x^3$ D) $15x^3$

27. If $\frac{x}{2}+\frac{x}{3}=5$, then x = _____

28. Factorize $(a + b)^2 - c^2$ = _____

29. If 0.5 x – 2.5 = 77.5 – 0.3x then x = _____

30. $\left(\sqrt{x}+\sqrt{y}\right)\left(\sqrt{x}-\sqrt{y}\right)$ = _____

31. Symbolic form of " 4 less than half of x" is _____

32. The number of the form a + ib where, a, b $\in$ R and i = $\sqrt{-1}$ is called the _____ number.

33. Square root of zero is _____

34. Every positive number has _____ square roots.

35. $\sqrt{a^2}$ = _____

36. $\sqrt{\frac{a}{b}}$ = _____

37. $\sqrt{a-b}$ _____ $\sqrt{a}-\sqrt{b}$

38. $\sqrt{a+b}$ _____ $\sqrt{a}+\sqrt{b}$

39. $\sqrt{100a^6b^6}$ = _____

40. If $\sqrt{1156}$ = 34; then $\sqrt{0.001156}$ = _____

41. $\sqrt{1024x^{16}y^8z^{20}}$ = _____

42. $\sqrt{\frac{p}{q}}\times\sqrt{\frac{q}{r}}\times\sqrt{\frac{r}{p}}$ = _____

43. Present age of Ravi is x, 5 years ago his age is _____

44. $143.\overline{143}\times1000$ = _____

45. Periodicity of 2.63 is _____

46. $(6^0 - 4^0) \times (6^0 + 4^0) \times 5^0$ = _____

47. In $2x^2y^3$, the literal Coefficient is _____

48. $-9x^2 + 7x^2 - 16x^2$ = _____

49. $3186500000 = 3.1865 \times 10^k$, then k = _____

50. Usual form of 1.002×10^5 = _____

51. The value of $4x^2 \times 3y^2 \times 0 \times 3z^2$ is _____

52. If $5^x = 1000$ then 5^{x+2} = _____

53. If $8a = 85^2 - 77^2$,then a = _____

54. $(2x + 5)^2 + (2x - 5)^2$ = _____

55. Every number is equal a itself specifies _____ property

56. Factorize $a^2 - (b - c)^2$ = _____

57. If a = b, b = c then a = c for any three numbers a,b,c specifies _____ property

58. $(x + y)(x^2 - xy + y^2)$ = _____

59. Factorize $a^2b^2 + c^2d^2 - a^2c^2 - b^2d^2$ are _____

60. Factors of 3ab are _____

61. Factors of $x^{2n} - 1$ are _____

62. Reciprocal f 3^3 is _____

63. $a^2 - 2ab + b^2$ = _____

64. $(x + \_\_\_)^2 = x^2 + 2xy +$ _____

65. $(2x - \_\_\_)^2 =$ _____ - _____ $+ 16y^2$

66. (_____ $+ 2l)^2 = 25m^2 +$ _____ + _____

67. (____$- 5z)^2$ = _____ $- 70yz +$ _____

68. $\left(\frac{1}{3} + \frac{\sqrt{7}}{3}\right)\left(\frac{1}{3} - \frac{\sqrt{7}}{3}\right)$ = _____

69. $\left(2\sqrt{x} - 4\right)\left(2\sqrt{x} + 4\right)$

70. Supply the missing term in the product, $(8y + 3)(7y \_\_\_) = 56y^2 - 19y - 15$

71. Find the product of $(12 m^2n - mn^2 - 1)(6 m^2n^2) =$ _____

72. $\left(\sqrt{a^4}\right)^2 =$ _____

73. Find the square root of $\frac{144l^2m^2}{169n^2} =$ _____

74. $a^3 - b^3 = (a^2 + ab + b^2)$ (_____)

75. If $t + \frac{1}{t} = 2$ then $t - \frac{1}{t} =$ _____

76. $\frac{(a+b)^2 + (a-b)^2}{(a^2 + b^2)} =$ _____

77. 23 % of a number is 46, then the number is _____-

78. 25 % = _____ (in fraction form)

79. 38 % = _____(in decimal form)

80. If 3% of x is 9 then x = _____

81. 240 students in a school went to picnic. Its percentage is 80%. Then total strength of the school is _____

82. 16 months = _____ years

83. If CP = Rs 800, SP = Rs 880, Then profit/ loss = _____

84. If cost price is Rs P and profit is Rs x, then the selling price is _____

85. If amount = Rs 660 and principal = Rs 500, then I = _____

86. SI on Rs. 1000 @12% per annum for 6 months is _____

87. Dividend = _____ x _____+ Remainder.

88. $x > 0$ means x is a _____ number.

89. $\frac{-32}{243}$ = _____ (write in power notation)

90. The length and breadth of a rectangle are in the ratio 4 : 1 & its area is 400 sq. units. Then its length is _____ (units)

A) 100 B) 20 C) 40 D) 10

91. A ray has _____ end point(s).

92. A line has _____ end points.

93. A closed figure with three line segments is called _____

94. Sum of the angles in a triangle is equal to _____ right angles.

95. _____ measurements are required to construct a triangle.

96. In a triangle opposite side to the right angle is called as _____

97. In ΔABC, if BC = CA then _____ angles are equal.

98. ΔABC is isosceles with AB = AC, if $\angle A = 80^0$, then $\angle C$ = _____

99. In ΔDEF, if $\angle D = \angle E$ then _____, _____ sides are equal.

100. The sum of the two sides of a triangle is _____ than the third side.

101. In an isosceles triangle, if the included angle of equal sides is 80^0, the other two angles are _____

102. In a quadrilateral ABCD; if $\angle D = 150^0$; $\angle A = \angle B = \angle C$ then $\angle A$ = _____

103. _____ measurements are required to construct a right triangle.

104. In a triangle, if one of the exterior angle is 130^0, corresponding interior angle is _____.

105. If the exterior angle is 100^0, and the opposite interior angles are equal, then the three angles of a Δ are _____.

106. In a right triangle, the sum of the angles other than right angle is _____

107. Exterior angle of equilateral triangle is _____.

108. Concurrent point of medians of a triangle is known as _____.

109. Orthocenter, circum centre will coincide in a _____ triangle.

110. Side of an equilateral triangle i s 10 cm, its perimeter is _____.

111. A triangle in which no two sides are equal is _____ triangle.

112. A triangle has _____ angular bisectors.

113. Objects, which have same shape and side are called _____ objects.

114. In ΔDEF, Included side between $\angle E$ and $\angle F$ is _____.

115. Sum of the angles in a quadrilateral is _____ right angles.

116. The four angles of a quadrilateral are in the ratio 1 : 2 : 3 : 4 then the measures are _____.

117. Sum of the exterior angles of a triangle is _____.

118. In _____, the diagonals bisect each other at right angles.

119. Two angles of a quadrilateral are 70^0 each and the third angle is 100^0, fourth angle is _____.

120. In a quadrilateral if $\angle A + \angle C = 200^0$ then $\angle B + \angle D$ = _____

121. Diagonal divides a square into _____congruent triangles.

122. Angle in the semi circle is _____

123. Longest chord in a circle is _____

124. Length of diagonal of a rectangle whose measures are 12 m and 5m is _____

125. Area of circle is _____

126. The value of π is _____ (Rational form)

127. The ratio of the circumference of a circle to its diameter is _____

128. In a circle the number of chords that can be drawn Through centre are _____

129. Perimeter of semi circle is _____

130. Area of circular ring is _____

131 Diagonal of rectangle whose length l and breadth b is _____

132. _____ faces are parallel to each other in cube/cuboid

133. The total surface area of cube whose edge is 5 cm is _____

134. Volume of a cube whose edge is 8 cm is _____

135. 1 m^3 = _____ cm^3

136. 1 *l* = _____ kl

137. Total surface area of a cube is 150 sq cm. Then its volume is _____cm^3

138. Two cuboids have the same volume their length are in the ratio 5 : 4, Their breadths are in the ratio 2 : 3 , then the ratio of their heights is _____

139. A tub of inner dimensions 125 cm , 100 cm , 80cm is full of water, then the quantity of water in liters is _____

140. Sheet required to construct a box of dimensions 10 cm , 5 cm, 3 cm is _____

141. The production of 45,000 cars are represented with _____ cars in pictograph, if 1 picture represents 10,000 cars

142. If 5 words are represented in a bar graph with 1 cm then 9 word in _____ cm

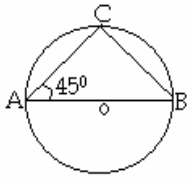
143. Bar diagram contains _____

144. If a data contains 9 items, the number of bars in the bar diagram is _____

145. If the length of two bars is 8 cm, 12 cm. The ratio of the value represented by them is

_____

146. In a bar graph, if 1 cm = 15 units then 2.5 cm is _____ units

147. 

IF $\angle A = 45^0$

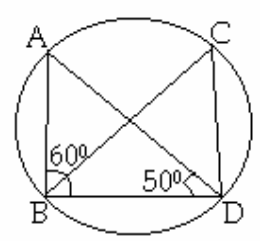
$\angle B$ = _____

$\angle C$ = _____

148. In the adjacent figure

$\angle A$ = _____

$\angle C$ = _____



149. If $\Delta ABC \cong \Delta DEF$, then $\angle B$ = _____

150. Two circles are congruent when their _____ are equal.