***NIGAT KOKEB P.P, PRIMERY AND MIDDLE SCHOOL***

**9th**

**MATHEMATICS WORKSHEET FOR GRADE 8TH YEAR2017 E.C.(UNIT 1 & 2)**

**INSTRUCTION- I. CHOOSES THE CORRECT ANSWERS FROM THE GIVEN ALTERNATIVES**

1. Which of the following numbers is **not** rational number?
2. 5
3. -3
4. ½
5. $\sqrt{2}$
6. What is the *multiplicative identify* of rational number?
7. 0
8. 1
9. 2
10. -1
11. Calculate the **sum** of $\frac{3}{4}$ and $\frac{5}{6}$ .
12. $\frac{1}{3}$
13. $\frac{7}{12}$
14. $\frac{1}{2}$
15. $\frac{19}{12}$
16. An integer can be
17. only positive B. only negative C. zero positive and negative D. none
18. By using the properties of rational number, **solve** the following equation **( 8 + 0) + ( 6 x 3)**
19. 26 B. 24 C. 28 D. 0
20. Which of the following type of numbers are closed under **only** *multiplication*?
21. Rational number B. Integers C. whole number D. natural number
22. Which of the following rational number **lies** between **-** $\frac{4}{5}$ and **-** $\frac{7}{5}$
23. - $\frac{35}{45}$ B.- $\frac{36}{45}$ C.- $\frac{39}{45}$ D.- $\frac{63}{45}$
24. $\sqrt{0.0169}$ is equal to \_\_\_\_\_\_\_\_\_
25. 0.13 B. 13 C. 1.3 D. 0.013
26. If **m** is the cube root of **n** , then **n** is \_\_\_\_\_\_\_\_\_\_\_
27. m3 B. $\sqrt{m}$ C. $\frac{m}{3}$ D. $\sqrt[3]{m}$
28. Which of the following is **not true**
29. The square of even number is even
30. The square of odd number is odd
31. The difference of the square of two consecutive numbers is 1.
32. None
33. Which of the following numbers is a **perfect square**?
34. 16 B. 18 C. 20 D. 22
35. Which of the following numbers is a **perfect cube**?
36. 27 B. 32 C. 36 D. 40
37. What is the **square root** of 64?
38. 6 B. 7 C. 8 D. 9
39. What is the value of **6** *cubed*?
40. 216 B. 228 C. 240 D. 252
41. What is the *cube root* of **512**?
42. 6 B. 8 C. 10 D. 12
43. What is the value of **(**$\sqrt{4}$ **) 2**?
44. 1 B. 2 C. $\sqrt{2}$ D. 4
45. What is the **cube root** of **0.001**?
46. 0.01 B. 0.1 C. 0.3 D. 0.03
47. What is the value of **(4 x 3)2**?
48. 64 B. 144 C. 256 D. 512
49. What is the value of $\sqrt{(16)^{2}}$ ?
50. 4 B. 8 C. 16 D. 32
51. What is the **cube root** of **0.008**
52. 0.02 B. 0.08 C. 0.2 D. 0.8
53. The **length** of a side square is **5** centimeters. What is the **area** of the square?
54. 5cm B. 25cm C. 5cm2 D. 25cm2
55. A square painting has an area of **196** square meters. What is the **length** of each side of painting?
56. 196m B. 29m C. 14m D. 1m
57. The volume of a cube **1000** cubic meters. What is the **length** of each side of the **cube**?
58. 10m B. 100m C. 15m D. 200m
59. The side length of a cube is 7 centimeters. What is the **volume** of the cube?
60. 343cm3 B. 49cm3  C. 7cm3 D. 21cm
61. Which of the following statement is **true**?
62. $\frac{\sqrt{27}}{\sqrt{3}}$ = $\sqrt[2]{\frac{27}{3}}$ B. $\frac{\sqrt{18}}{\sqrt{2}}$ = $\sqrt{9}$ C. $\frac{2 \sqrt{625}}{50}$ = 1 D. all
63. What is the **decimal representation** of the fraction $\frac{3}{5}$ ?
64. 0.3 B. 0.5 C. 0.6 D. 0.8
65. Which of the following is an **irrational number**?
66. 0.75 B. 1.5 C. $\sqrt{6}$ D. $\frac{3}{4}$
67. What is the **reciprocal** of $\frac{2}{3}?$
68. $\frac{2}{3}$ B. $\frac{3}{2}$ C. $\frac{1}{6}$ D. $\frac{6}{1}$
69. Which of the following numbers is a rational number?
70. $\sqrt{5}$ B. 0.4 C. – 1.2 D. 2$π$
71. Mrs. Neima spent $\frac{2}{5}$ of her monthly salary on rent and $\frac{1}{4}$ on groceries. What fraction of her salary did she spend in total?
72. $\frac{3}{9}$ B. $\frac{9}{20}$ C. $\frac{7}{20}$ D. $\frac{13}{20}$
73. Convert the **5** $\frac{3 }{7}$to improper fraction.
74. $\frac{38}{7}$ B. $\frac{7}{38}$ C .$\frac{15}{7}$ D. $\frac{30}{7}$
75. The temperature at noon was **-5** degrees Celsius. Throughout the day, the temperature increased **8** degrees Celsius. Which of the following statements is **true**?
76. -5 degrees Celsius is a whole number and a rational number.
77. -5 degrees Celsius is a natural number and a rational number.
78. -5 degrees Celsius is an integer and a rational number.
79. -5 degrees Celsius is an irrational number.
80. Convert the decimal **0.625** to a fraction in simplest form.
81. $\frac{5}{8}$ B. $\frac{5}{9}$ C. $\frac{5}{10}$ D. $\frac{5}{11}$
82. The sum of **(0.1+0.2)**$ \frac{1}{2}$
83. $\frac{2}{10}$ B. $\frac{20}{3}$ C. $\frac{3}{20}$ D. $\frac{4}{19}$
84. Convert the fraction $\frac{17}{20}$ to a decimal.
85. 0.85 B. 0.875 C. 0.9 D. 0.95
86. $\sqrt{7\frac{1}{9}}$ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
87. $\frac{64}{9}$ B. $\frac{8}{3}$ C. $\frac{9}{64}$ D. $\frac{3}{8}$
88. $\sqrt[3]{216 }$ **-** $\sqrt[3]{64}$ is equal to \_\_\_\_\_\_\_\_\_\_\_\_\_

$A$. 6 B. 3 C. 2 D. 1

1. Which of the following statement is **not true**?
2. -32 = 9 B. -32 =(-3)2 C. X2 = 2x D. all
3. The simplest form of the expression $\frac{\sqrt[3]{24}}{\sqrt[3]{3}}$ is \_\_\_\_\_\_\_\_\_\_
4. 1 B. 2 C. 3 D. 4
5. Which of the following statement is **true**?
6. $\sqrt{\frac{a}{b}}$ = $\frac{\sqrt{a}}{\sqrt{b}}$ B. $\sqrt{ab}$ = $\sqrt{a}$ - $\sqrt{b}$ C.(ab)2 = a2b2 D. all

*Prepared by: Mathematics Department*