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(21)

ANDHRA EDUCATION SOCIETY SCHOOLS
NEW DELHI
SUMMATIVE ASSESSMENT-I (2016-17)
CLASS - VIII
SUBJECT - MATHEMATICS

Time : 2:30 Hrs.

Max Marks : 60

I. Answer the following.

1x10=10M

1. Write the reciprocal of $-1 \times \frac{5}{8} = -\frac{8}{5}$
2. What is the square root of 121 = 11
3. Find the number of digit in the square root of 4489. 22
4. Find the ratio of 5 m to 10 km. = 1:2000
5. If 5 years ago, my age was 18 years then what is my present age. 23
6. Find the range of the data
5, 15, 25, 18, 4, 6, 16, 20, 14 21
7. If 1 is subtracted from both sides of $X+1=5$ then the Value of 'X' is..... 4
8. What is the additive inverse of $\frac{-7}{19} = \frac{7}{19}$
9. Without doing any calculation find the numbers which are surely not perfect squares 152, 441, 257.
10. In an inverse proportion, two quantities X & Y vary such that xy constant.
remain

II. Answer these.

2x6=12M

1. Find the multiplicative inverse of $\frac{-5}{8} \times \frac{-3}{7}$
2. Express 121 as the sum of 11 odd numbers.
3. Solve for y $\frac{3y+4}{2-6y} = \frac{-2}{5}$ - 8
4. Express the given no. as the sum of odd numbers 9. 3²
5. 72% of 25 students are good in mathematics. How many are not good in mathematics. 7

PTO

6. When a die is thrown, list the out comes of an event of getting.
(a) a prime number (b) a number greater than 6.

2, 3, 5
None
III. Solve any 6 of the following.

3x6=18M

1. ✓ Solve [by using properties] $\left\{ \frac{7}{5} \times \left(\frac{-3}{12} \right) \right\} + \left\{ \frac{7}{5} \times \left(\frac{5}{12} \right) \right\}$ $\frac{7}{30}$

2. ✓ Find the square root of 9604 by the Prime factorisation method. 98

3. ✓ A factory requires 42 machines to produce a given number of articles in 63 days. How many machines would be required to produce the same number of articles in 54 days. 36 machines

4. ✓ A VCR & TV were bought for Rs. 8,000 each. The shop keeper made a loss of 4% on the VCR and a Profit of 8% on the TV. Find the gain or loss percent on the whole transaction. 21.8

5. The weekly wages [in Rs.] of 30 workers in a factory are
830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860,
832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836,
878, 840, 868, 890, 806, 840.

Using tally marks make a frequency table with intervals as
800 - 810, 810 - 820 and so on.

6. ✓ The difference between two whole numbers is 66. The ratio of the two numbers is 2:5 what are the two numbers? 44, 110

7. ✓ The denominator of a rational number is greater than its numerator by 8. If the numerator is increased by 17 and the denominator is decreased by 1, the number obtained is $\frac{3}{2}$. Find the rational number. $\frac{13}{21}$

V. Solve any five of the following.

5x4=20M

1. ✓ Find 8 rationals between $\frac{3}{5}$ and $\frac{3}{4}$

2. ✓ Find the Cube root of 110592 by prime factorisation method. 48

3. Suppose 2 kg of Sugar Contains 9×10^6 crystals. How many sugar crystals are there in (i) 5 Kg of Sugar (ii) 1.2 Kg of Sugar.

4. ✓ Maria invested Rs. 8,000 in a business. She would be paid interest

at 5% per annum compounded annually. Find.

- i) The amount credited against her name at the end of the second year. 3820
- ii) The interest for the 3rd year. 441

5. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer.
- i. Which season got the most votes?
 - ii. Find the Central angle of each sector.
 - iii. Draw a pie Chart to show this information.

Season	Summer	Rainy	Winter
No. of Votes	90	120	150

90° 120° 150°

6. One of the two digits of a two digit number is three times the other digit. If you interchange the digits of this two - digit. number and add the resulting number to the original number, you get 88. What is the original number? 62
