

ST. THOMAS SCHOOL INDIRAPURAM
SUMMER VACATION HOLIDAY HOMEWORK (2020-21)
CLASS – VIII SUBJECT – MATHEMATICS

ACTIVITY :

Prepare a presentation of about 8-10 slides on the topic **VISUALISING SOLID SHAPES** and submit the same to your teachers on their email id.

WORKSHEET

1. The product of two numbers is $\frac{5}{9}$. If one of them is $\frac{-35}{24}$, find the other.
2. Divide the sum of $\frac{3}{8}$ and $\frac{-5}{12}$ by the reciprocal of $\frac{-15}{8} \times \frac{16}{27}$.
3. Find the least number which is a perfect square and which is also divisible by 16, 18 and 45.
4. An officer wishes to draw up his 64019 men in the form of a square, found that he had 10 men left. Find the number of men in each row.
5. Find the square root of the following numbers by long division method.
(i) 7744 (ii) 8649 (iii) 15129
6. Find the perimeter of a square whose area is 6889 m^2 .
7. What will be the unit digit of the squares of the following numbers?
(i) 7358 (ii) 23904 (iii) 539 (iv) 731 (v) 5980
8. Show that : $(\frac{-8}{9} \times \frac{1}{-5}) + (\frac{-8}{9} \times \frac{-7}{11}) = \frac{-8}{9} \times (\frac{1}{-5} + \frac{-7}{11})$
9. Find five rational numbers between $\frac{-7}{2}$ and -2 .
10. Find ten rational numbers between 3 and -3 .
11. A society collected Rs 8836, each member contributing as many rupees as there were members. Find the number of members of the society.
12. Which of the following triplets are Pythagorean?
(i) (10, 24, 26) (ii) (6, 8, 10) (iii) (8, 15, 17)
13. Simplify : $(\frac{-6}{7} \times \frac{-28}{18}) + (\frac{-11}{13} \times \frac{65}{22})$
14. Find the value of $\sqrt{3136}$ and use it to find the value of $\sqrt{31.36} + \sqrt{0.3136}$.

15. Fill in the blanks:-

- (i) Without adding, the value of $1+3+5+7+9+11+13+15 =$ _____.
- (ii) The number of zeros at the end of a perfect square is always _____.
- (iii) The additive inverse of 0 is _____.
- (iv) The reciprocal of $-\frac{7}{9}$ is _____.
- (v) The unit digit of square root of 66564 will be either _____ or _____.

16. For each of the following numbers 2925, 1620 and 3675, find the smallest whole number by which it should be divided so as to get a perfect square.

17. Find the least number of 4 digits, which is a perfect square.

18. Find the least number which must be subtracted from 3250 so as to get a perfect square. Find the square root of the perfect square so obtained.

19. There are 500 children in a school. For a P.T drill they have to stand in such a manner that the number of rows is equal to number of columns. How many children would be left out in this arrangement.

20. By what rational number should $\frac{-15}{56}$ be divided to get $\frac{-5}{7}$?