

Holiday Home Work

(Session: 2019 – 2020)

Class: VIII

Subject: Science

Physics

1. State three effects of force along with examples.
2. Describe an activity to show that liquid exerts pressure at the bottom of the container.
3. Explain with an activity that pressure exerted by a liquid increases with increase in depth of the liquid column.
4. Explain with the help of an activity that pressure exerted by a liquid at the points on the same horizontal level is equal.
5. State the factors on which pressure depends. Explain with the help of an activity.

Q1. Solve:

a) $(15.01)^2 + \sqrt{81.009} \times 32$

b) $\sqrt{1.5625}$

c) $\sqrt{45796}$

d) $\sqrt{570 \times 580} + \frac{447}{1.98}$

e) $\sqrt{570} + \sqrt{580}$

Q2. Find the square root of 20.4304

Q3. Each member of a picnic party contributed twice as many rupees as the total number of members and the total collection was Rs 2178. How many members were present in the party?

Q4. The area of square garden is 3249 sq meter. What is the length of the sides.

Q5. Find the least number which must be multiplied to 2048 to get a perfect square. Also find the square root of that number.

Q6. Find the least number which must be subtracted from 5460 to get a perfect square. Also find the square root of that number.

Q7. A group of students decided to collect as many paise from each member of group as is the number of members. If the total collection amount to Rs 59.29. Find the no of members in the group.

Q8. Find the least number which must be divided from 1470 to get a perfect square. Also find the square root of that number.

Q9. Find the least number which must be subtracted from 0.000326 to get a perfect square. Also find the square root of that number.

Q10. Find the least number which must be added to 680621 to make it a perfect square. Also find the square root of that number.

Q11. Find the greatest 4-digit perfect square.

Q12. Solve: $\sqrt[3]{27} + \sqrt[3]{0.008} + \sqrt[3]{0.064}$

Q13. Find the cube root of 9197.

Q14. By which smallest number which should 42592 be divided so that the quotient is a perfect cube.

Q15. By which smallest number which should 137592 be multiplied so that the product is a perfect cube. Also find the cube root of the product.

