Date:07-08-2022

**Q1 to Q5. (1 Marks)**

**Q1. Define : Distributive Properties and Associative Properties**

**Q2. Define: Concave Polygon and Convex Polygon**

**Q3. Define : Raw Data and Frequency**

**Q4. Write the Properties of Kite**

**Q5. What is Probability (Formula).**

**Q6 to Q10 (2 Marks)**

**Q6. Find ten rational numbers between −2 / 5 and 1 / 2.**

**Q7. Write a Pythagorean triplet whose one member is: 6 and 16**

**Q8. Find the square roots of 100 and 169 by the method of repeated subtraction.**

**Q9. Find the square root of each of the following numbers by Long Division method.**

1. **2304**
2. **3481**

**Q10. How many sides does a regular polygon have if each of its interior angles is 165°?**

**Q11 to Q15 (3 Marks)**

**Q11. The shoppers who come to a departmental store are marked as: man (M), woman (W), boy (B) or girl (G). The following list gives the shoppers who came during the first hour in the morning.  
W W W G B W W M G G M M W W W W  
G B M W B G G M W W M M W W W  
M W B W G M W W W W G W M M W  
W M W G W M G W M M B G G W  
Make a frequency distribution table using tally marks. Draw a bar graph to illustrate it.**

**Q12. Draw a histogram from the given data, and answer the following questions:**

**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  
(i) Which group has the maximum number of workers?  
(ii) How many workers earn ₹ 850 and more?  
(iii) How many workers earn less than ₹ 850?**

**Q13. The ages of Hari and Harry are in the ratio 5 : 7. Four years from now the ratio of their ages will be 3 : 4. Find their present ages.**

**Q14. 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 32. Find the rational number.**

**Q15. Solve the Following Linear Equation**

**NCERT Solutions for Class 8 Maths Chapter 2 Linear Equations in One Variable Ex 2.5 Q5**

**Q16 to Q19 (5 Marks)**

**Q16. 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?**

**Q17. Hasan buys two kinds of cloth materials for school uniforms, shirt material that costs him ₹ 50 per metre and trousers material that costs him ₹ 90 per metre. For every 3 metres of the shirt material, he buys 2 metres of the trouser material. He sells the materials at 12% and 10% profit respectively. His total sale is ₹ 36,600. How much trouser material did he buy?**

**Q18. Aman’s age is three times his son’s age. Ten years ago he was five times his son’s age. Find their present ages.**

**Q19. A card is drawn from a well shuffled pack of 52 cards. Find the probability of:**

1. **A non face card**
2. **A king or a Queen**
3. **A Black card**
4. **Neither a Spade nor a jack**
5. **A black face card**