

Question Blast (Round 2)

1-In a model of a ship, the mast is 9 cm high, while the mast of the actual ship is 12 m high. If the length of the ship is 28 m, how long is the model ship?



2- A farmer has enough food to feed 20 animals in his cattle for 6 days. How long would the food last if there were 10 more animals in his cattle?

3-A school has 8 periods a day, each of 45 minutes duration. How long would each period be, if the school has 9 periods a day, assuming the number of school hours to be the same?

4- A photograph of a bacteria enlarged 50,000 times attains a length of 5 cm, as shown in the diagram. What is the actual length of the bacteria? If the photograph is enlarged 20,000 times



only, what would be its enlarged length?

5- A contractor estimates that 3 persons could rewire Jasminder's house in 4 days. If he uses 4 persons instead of three, how long should they take to complete the job?

6- A mixture of paint is prepared by mixing 1 part of red pigments with 8 parts of the base. In the following table, find the parts of the base that need to be added.

Parts of red pigment	1	4	7	12	20
Parts of base	8	----	----	----	----

7-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?

8-A loaded truck travels 14 km in 25 minutes. If the speed remains the same, how far can it travel in 5 hours?

9-During a sale, a shop offered a discount of 10% on the marked prices of all the items. What would a customer have to pay for a pair of jeans marked at ₹ 1450 and two shirts marked at ₹ 850 each?

10-The price of a TV is ₹ 13,000. The sales tax charged on it is at the rate of 12%. Find the amount that Vinod will have to pay if he buys it.

11-A scooter was bought at ₹ 42,000. Its value depreciated at the rate of 8% per annum. Find its value after one year.

12-The population of a place increased to 54000 in 2003 at a rate of 5% per annum
(i) find the population in 2001. (ii) what would be its population in 2005?

13-In a laboratory, the count of bacteria in a certain experiment was increasing at the rate of 2.5% per hour. Find the bacteria at the end of 2 hours if the count was initially 5,06,000.

14-Salim bought an article for ₹784 which includes GST of 12%, what is the price of the article before GST was added?

15-The cost of a pair of a roller skates at a shop was ₹450. The sales tax charged was 5% filed the bill amount.

16-find compound interest on ₹12,600 for two year at 10% per annum compound annually.

17-the population of the city was 20,000 in the year 1997. It increases at the rate of 5% per annum. Find the population at the end of year 2000.

18- ATV was bought at a price of 21,000. After one year, the value of the TV was depreciated by 5%. Find the value of the TV after one year.

19-There are hundred student in a hostel food provision for them is for 20 days. How long will this provision last if 25 more student join the group?

20-six pipes are required to fill a tank in 1 hour 20 minute. How long will it take If only 5 pipe of the same types are used?