**AHLCON PUBLIC SCHOOL, MAYUR VIHAR, PHASE – 1,DELHI – 91**

**ASSIGNMENT-: CH 12**

**Class: VI**      **Subject: MATHEMATICS   Topic: Ratio and Proportion**

**Instructions**: Do the worksheet in your Practice Register.

Q.1   What is the ratio of?

   a) 6kg to 500 g
   b) 5g to 4 kg
   c) 5 minutes to 40 seconds
   d) ₹2 to 50 paisa.

Q.2   Write the following ratios in the simplest form.

   a)  12 : 16     b) 300m : 1km     c) 1 hr : 20 minute  d) 0.2 : 0.8 e) $2 : \dfrac{1}{7}$

Q.3   The car runs 120km in 3 hours and a train travels 200km in 4 hours.  What is the ratio of their speeds?

Q.4   Length of a field is 40m and breadth is 15m what is the ratio of

   a) Length of the field. To its breadth.
   b) Length of the field to its perimeter.

Q.5   Divide ₹5600 between Neeraj and Arun in the ratio 3:5

Q.6   Find the value of x in the following

   a)  22 : 55 = 28:x
   b)  2 : 3 = x : 6

Q.7   The ratio of income and expenditure is 3: 2.  If income is ₹6,000, How much is expenditure and the saving.

Q.8   Which ratio is greater 4: 5 or 5: 8?

Q.9   Determine if the following are in proportion.

   a)  2kg : 80 kg and 25 g : 625g
   b)  80cm : 4cm and ₹7 : ₹35
   c)  800ml : 300ml and 560 : 210

Q.10  15 bags of wheat weigh 9135 kg.  How much will 20 bags weigh?

Q.11  22 ½ of ribbon costs ₹2134.20.  What is the cost of $6\dfrac{3}{4}$ m?

Q.12  15 post cards cost ₹11.25

   i)      What will be cost of 36 postcards?
   ii)     How many postcards can we buy for ₹225?

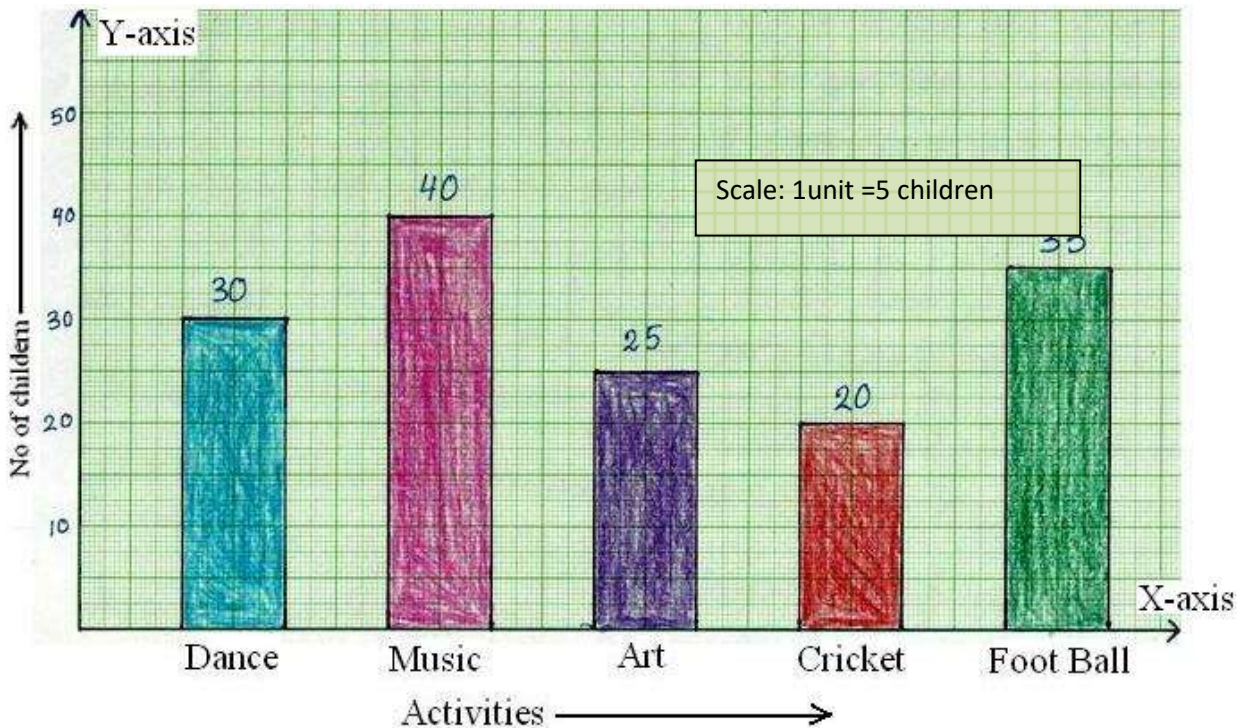Q.13  A man earns ₹1, 75,000 a year and spends ₹6300 a year.  Find the ratio of

   i)      His income to his expenditure.
   ii)     His saving to his income.

Q.14 The ratio of boys and girls in a school is 12:5. If number of girls are 40, what is the total strength of the school?

Q.15 Check whether 25cm: 1m and ₹40: ₹160 form proportion. Also write the middle term and extreme terms.

Q16 If 2 : 9 :: x : 18, then find the value of x

Q19 Graph shows the various activities opted by children of class VI



Find the ratio of,

   a) Number of students who opting football to the number of students who opted cricket.
   b) Number of students opting cricket to the number of students opting music.