Himalaya International School
Subject -Mathematics
Class- VI
Chapter – 3 (Playing with Numbers)
Chapter – 11 (Algebra)
Practice Assignment- 1

Q1. Which of the following is exactly divisible by 4?
   (a) 224 (b) 1001 (c) 222 (d) 3111

Q2. The smallest prime number is ___.
   (a) 1 (b) 2 (c) 3 (d) 0

Q3. LCM of co – prime numbers y and z is ____.
   (a) 0 (b) 1 (c) yz (d) y +z

Q4. The solution of the equation -x + 14 = - 5 is ___
   (a) x =-19 (b) x = -14 (c) x =14 (d) x = 19

Q5. Which of the following number is not a factor of 36?
   (a) 2 (b) 4 (c) 18 (d) 8

Q6. t – (-4t + 3t) =____
   (a) **0 (b) -2t (c) t (d) 2t**

Q7.(a) Find the prime factorisation of 24.
   (b) **Find the common factor of 35 and 70.**

Q8. Solve the given equation by trial and error method.
12 t =84

Q9. Find the HCF of 24, 36, 72 and 144.

Q10. If a = 1, b =2, c =-3, find the value of
   (a) 3 (a+b) (b) 4 c+ 7

Q11. Find the LCM of 8 and 9 by listing their multiples.

Q12. Write an algebraic expression for the number of weeks in x years.

Q13. Find the HCF and LCM of 32, 48 and 60.

Q14. Write the following equations as statements.
   (a) 2s = 8 (b) 3 (a+5) = 18

Q15. The product of two numbers is 810 and their LCM is 90. Find their HCF.

Q16. Solve the following equations.
      11 a = 12 + 13 + 8

Q17. Music gives students unique opportunities to express themselves creatively and build confidence.
Benubala and Hardarsh have their music classes today. Benubala goes to the music class every 3 days and Hardarsh goes to his music class every 4 days. When will be the earliest day of their classes happening on the same day?

Q18. Kairav is 8 years older than his brother Sunil. If Kairav's age is 80 years, Find Sunil's age.

Q19. A cuboid has three dimensions such as length, width, and height. A perfect cuboid is said to be a cuboid that has integer edges.
The length, breadth and height of a cuboid is 45 cm, 85 cm and 115 cm respectively. Find the length of the longest tape which can measure the three dimensions exactly.
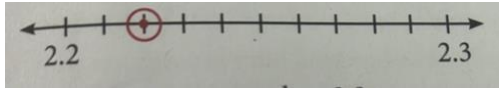
Q20. (a) Find the sum of p, -5p, 3 r and 6 r.
(b)Subtract -2a from 5a.

Practice Assignment- 2
Chapter – 6 (Integers)
Chapter – 8(Decimals)

Q1. The additive inverse of -115 is ___ .

(a) 0 (b) 115 (c) -116 (d) -114

Q2. The decimal represented on the number line is _____ .

(a) 0.2 (b) 2.2 (c) 22.0 (d) 2.22

Q3. The integer that is 3 more than (-6) is ___ .

(a) 3 (b) -3 (c) -9 (d) 9

Q4. The place value of 5 in 128.56 is ____ .

(a) 5 (b) 50 (c) 500 (d) $\dfrac{5}{10}$

Q5. The successor of -19 is ___ .

(a) -18 (b) 18 (c) 20 (d) -20

Q6. Write 34. 786 in words.

Q7. Find the sum of -36 and 1027.

Q8. A pen and a notebook respectively cost ₹35.08 and ₹281.5 . Find how much less or more a notebook costs than a pen.

Q9. Swastik bought a pen at ₹ 22.75 , a pencil at ₹2.75 and a maths book at ₹ 140.25. How much money did he spend?

Q10. Represent 3.7 on number line.

Q11. Find the difference between -43 and (-39).

Q12. Which one is greater?

$200 + 7 + \dfrac{2}{10}$ $\dfrac{4}{1000} +$ or. 207.24

Q13. Write two negative integers less than -183.

Q14. The sum of two number number is 745.26. If one number is 400.05, find the other number.

Q15. The length of my keyboard is 48 cm 9 mm. Express it in m.

Q16.(a) Express 93 mm as cm using decimals.
   (b) Express 75 cm as m using decimals.

Q17. Ramesh has the following decimal numbers:
4.27 , 2.91 , 1.09 , 3.75 , 2.19
(a)Arrange the given decimal numbers in ascending order.
(b)What is the difference between the largest and smallest numbers?

Q18. Simplify: 71.02 + 4.91 – 49.999

Q19. A student scored the following marks in five subjects.

Mathematics	Science	English	Social Studies	Computer
75	-12 (due to penalty)	90	88	-8 (due to penalty)

(a)What is the sum of the marks scored in Mathematics and English?
(b) What is the difference between the highest and lower marks ?
(c)Write all the integers between -12 and -8 .

Q20. The carbohydrates contained in cookies are also an important nutrient, proving energy and regulating fat metabolism.
Mary bought 2 kg 40 g of strawberry cookies, 4 kg 4 g of orange cookies and 150 g of coconut cookies. What is the total weight of cookies (in kgs) she brought?

Practice Assignment- 3
Chapter -9 (Data Handling)
Chapter – 10(Mensuration)

Q1. If p and q represents length and breadth of a rectangle, then its perimeter is given by _____.

(a) P x q (b) 2 (p + q) (c) p + q (d) 2 (p x q)

Q2. The numerical information collected and recorded for a specific purpose is ___.

(a) Frequency (b) data (c) tally marks (d) numbers

Q3. If the area of a square is 64 sq.m, then its side measures _____.

(a) 8 m (b) 9 m (c) 10 m (d) 7 m

Q4. Which of the following is used to tabulate data ?

(a) Symbols (b) pictures (c) Tally marks (d) Numbers

Q5. The perimeter of a regular polygon having n sides of length 'm' units is given by _____.

(a) n x m units (b) n + m units (c) n ÷ m units (d) m ÷ n units

Q6. Pictograph are created using___.

(a) Tally marks (b) number (c) only pictures (d) pictures and symbols

Q7. What is the perimeter of a regular pentagon of side length 28 cm ?

Q8. What is the perimeter of a regular heptagon with side length 20 cm?

Q9. Find the area of rectangle whose length and breadth are 12 cm and 9 cm respectively.

Q10. Rakesh threw a dice 20 times and noted the number appearing each time a shown below:

4 3 5 5 6 2 5 4 6 1

6 5 4 4 6 1 5 5 1 1

Make a table and enter the data using tally marks..

(a)Find the number that appeared the minimum number of times.

(b)Find the number that appeared the maximum number of times.

(c) Find those numbers that appear an equal number of times.

Q11. The area of square- shaped field is 225 sq.m. Find the length of the wire required to fence the ground.

Q12. The pictograph given below shows the data about the one – minute game conducted on the opening day of a sports event.

Name of the participant	Number of balls thrown in the basket in a minute
Neha	● ● ● ● ●
Nisha	● ● ●
Amay	● ● ● ● ● ● ● ● ●
Roopa	● ● ● ●
Sanju	● ● ● ● ● ● ●

Observe the pictograph and answer the following questions.

a. **Who is the winner in this one-minute game?**

b. **who threw the least number of balls in the basket?**

c. **How many less balls did Neha throw than Sanju?**

d. **How many more balls did Sanju throw than Nisha?**

e. **Who threw one ball less than Neha?**

Q13. Parks provide space for neighbourhood and residents to interact with each other and meet new people.Rohan runs around a rectangular park with

length 100 m and breadth 63 m. Another boy Sohan, runs around a square park with side 85 cm. Find out who cover more distance and by how much?

Q14. The following table represents the sale of televisions in a particular month in 5 different states.

State	No. of televisions sold
Uttar Pradesh	75
Maharashtra	80
Madhya Pradesh	60
Tamil Nadu	45

Show the above information in the form of a pictograph.

Q15. Find the area of the following shape by counting square method.
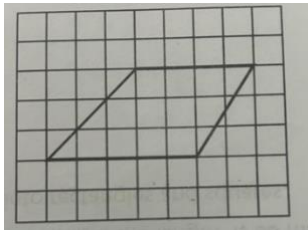
Q16. The following data is about the beverages taken by employees in an office, Tabula data.
Tea, Milk, Tea, Milk, Tea, Tea
Milk, Coffee, Coffee, Tea, Coffee
Tea, Milk, Milk, Juice , Milk, Milk

Q17. A carpenter wants to fix beadings around a sheet of plywood of area 117 sq. ft. The length of the plywood sheet is 13 ft. Find the length around the plywood sheet required for beading.

Q18. The bar graph given below shows different varieties of animals in a zoo.
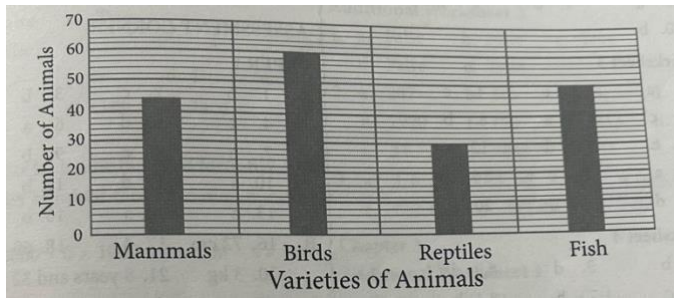
Observe the graph and answer the following question

a. **How many reptiles are there in the zoo?**

b. **Which animal is more in number?**

c. **Which animal is 45 in number?**

d. **How many fishes are seen in the zoo?**

e. **How many animals are there in the zoo in all/ altogether?**

Q19. The length of a rectangular plot of land is thrice its breadth. If the perimeter of the plot is 160 m.
 (a)Find the length of the rectangular plot in terms of y.
(b) Find the breadth of rectangular plot.
(c)What is the area of the rectangular plot?

Q20. Grocery shops play a crucial role in ensuring food security within communities. In one day, the sales (in₹) of different items of a grocery store are given below.
Rice   : ₹ 1500
Pulses.   : ₹ 2500
Salt   : ₹ 4000
Sugar   : ₹ 500
Wheat flour   : ₹ 1000
Represent the above data in the form of a bar graph.

Practice Assignment- 4

Chapter – 12(Ratio and Proportion)
Chapter –14 (Practical Geometry)

Q1. The simplest form of the ratio 6:18 is ___ .
   (a) 12:36 (b) 3:9 (c) 4:12 (d) 1:3

Q2. A perpendicular bisector makes an angle of ____ .
   (a) 50° (b) 90° (c) 45° (d) 180°

Q3. Which of the following is in proportion?
   (a) 2:5=1:5 (b) 7:10=5:8 (c) 2:10=1:5 (d) 8:5 =2:3

Q4. The length of each line segment on drawing a perpendicular bisector for AB= 4.8 cm is ____ .
   (a) 2.4 cm (b) 2.6 cm (c) 5 cm (d) 5.5 cm

Q5. If p : 10 = 2:20, then the value of p is equal to____ .
   (a) 40 (b) 30 (c) 10 (d) 1

Q6. Draw any line CD. Mark a point S on it . Draw a perpendicular to CD through S, using ruler and compass.

Q7. Mia drew 12 hearts and 40 smileys. What is the ratio of hearts to all shapes?

Q8. Construct AC = 7 cm . Cut off AB =2.5 cm from it . What is the measure of BC?

Q9. The ratio of boys and girls in a class is 5:4. If the strength of the class is 45, find the number of boys and girls in the class.

Q10. Construct : A circle of diameter 9 cm.

Q11. The first three terms of a proportion are 12, 108 and 11 respectively. Find out the fourth term.

Q12. Construct the perpendicular bisector of XY = 11 cm.

Q13. Divide ₹ 500 between Disha and Drishti in the ratio 2:3

Q14. Construct the following angles using a ruler and a compass. (a) 120° (b) 75°

Q15. A man's monthly income is ₹ 1300. He spends ₹850. Find the ratio of his
   (a) Expenditure to Income (b) Saving to Income
      (c)Saving to Expenditure

Q16. Construct a right angle and then bisect it. Write the steps of constructions

Q17. A pack of biscuits costs ₹36. If there are 9 biscuits in the packet, find the cost of each biscuit.

Q18. Draw $\angle ABC = 80°$ and bisect it.

Q19. Basmati rice is a staple in the Indian diet. The fiber in basmati rice is soluble, meaning it adds bulk and helps move waste along the digestive tract. The basmati rice is available in 25 kg packs and 15 kg packs. The 25 kg pack costs ₹2000. What will be the cost of the 15 kg pack?

Q20. The circle has an infinite number of lines of symmetry, making it a fundamental shape in understanding symmetry and patterns.
Draw a circle of radius 7 cm. Draw any two chords. Construct the perpendicular bisector of those chords. Where do they meet?