International Indian School, Dammam  
Class : VI  
Maths Worksheet  
2015-2016  
Ch: 1. Knowing our numbers

1. Write the numbers names according to Indian place value system after placing the commas and write the place value of the underlined $58695376$, $667755334$, $2013500$.

2. Write the given numbers in International place value system after placing commas and write the face value of the underlined $145630293$, $349023456$, $45678678$.

3. Fill in the blanks
   (a) $10$ million = ______ crore.
   (b) $10$ lakh = ______ million.
   (c) $1$ metre = ______ millimetres.
   (d) $1$ centimetre = ______ millimetres.
   (e) $1$ kilometre = ______ millimetres.
   (f) $1$ gram = ______ milligrams.
   (g) $1$ litre = ______ millilitres.
   (h) $1$ kilogram = ______ miligrams.

4. Arrange the following numbers in descending order:
   $8435$, $4835$, $3584$, $5348$, $5843$

5. Arrange the following in ascending order
   $38051425$, $30040700$, $28856134$, $67205602$

6. Write in expanded form, the following:
   (a) $74836$  (b) $574021$  (c) $8907010$

7. As per the census of 2001, the population of four states are given below. Arrange the states in ascending and descending order of their population.
   (a) Maharashtra 96878627  (b) Andhra Pradesh 76210007
   (c) Bihar 82998509  (d) Uttar Pradesh 166197921

8. The diameter of Jupiter is 142800000 metres. Insert commas suitably and write the diameter according to International Place Value System?

9. Using each of the digits 1, 2, 3 and 4 only once, determine the smallest and largest 4-digit number.

10. A garment factory produced 216315 shirts, 182736 trousers and 58704 jackets in a year. What is the total production of all the three items in that year?

11. The population of a town was 78787 in the year 1991 and 95833 in the year 2001. Estimate the increase in population by rounding off each population to nearest hundred?

12. A vessel has 13 litres 200mL of fruit juice. In how many glasses each of capacity 60mL can it be filled?
13. Estimate each of the following by rounding off each number to nearest hundreds:
(a) 874 + 478  (b) 793 + 397
(c) 11244 +3342  (d) 17677 + 13589

14. Estimate each of the following by rounding off each number to nearest tens
(a) 11963 – 9369  (b) 76877 – 7783
(c) 10732 – 4354  (d) 78203 – 16407

15. Estimate each of the following products by rounding off each number to nearest tens:
(a) 87 × 32  (b) 311×113
(c) 3239 × 28  (d) 1385 × 789

16. Find the sum of the greatest and the least six digit numbers formed by the digits 2, 0, 4, 7, 6, 5 using each digit only once.

17. Chinmay had Rs 610000. He gave Rs 87500 to Jyoti, Rs 126380 to Javed and Rs 350000 to John. How much money was left with him?

18. Out of 180000 tablets of Vitamin A, 18734 are distributed among the students in a district. Find the number of the remaining vitamin tablets?

19. A person had Rs 10,00,000 with him. He purchased a colour T.V. for Rs 16,580, a motor cycle for Rs 45,890 and a flat for Rs 8,70,000. How much money was left with him?

20. India’s population has been steadily increasing from 439 millions in 1961 to 1028 millions in 2001. Find the total increase in population from 1961 to 2001. Write the increase in population in Indian System of Numeration, using commas suitably.

21. Find the number shirts manufactured by the factory in February 2012, if the factory can manufacture 2,456 shirts a day.

22. In a box there are 6240 strawberries arranged in trays, each tray has a dozen of them. Find the number of trays.
1. Multiple choice questions.
   a. Which number has no predecessor in whole numbers. (1,0,2,10)
   b. Additive identity of whole number is......................... (1,2,0,5)
   c. Name the property used ” 9999 × 1 is a whole number.”
      (closure, commutative, associative, distributive)
   d. Natural numbers along with zero is called....................... (prime number, even number, whole number)
   e. Name the property used 3×2 = 2×3
      (distributive, closure, commutative, associative)
   f. Successor of the largest 5 digit number. (100000,99999,10000,1)
   g. 2×100×9 = 9×……×2 (2,9,100,0)

2. Write the successor of
   a. 25,000
   b. 75,437
   c. 98009

3. Write the predecessor of
   a. 1,00,000
   b. 4,35,000
   c. 12,345

4. Find using number line
   a. 8-3
   b. 6+2
   c. 4×2

5. Find the product using suitable properties
   a. 89×103
   b. 976×98
   c. 543×102
   d. 123×97

6. Find the sum by suitable arrangement and mention the property used.
   a. 1983+558+217+442
   b. 67+933+5498
   c. 1983+4362+217+638

7. Find the product by suitable arrangement and mention the property used.
   a. 2×9897×50
   b. 592×80×5
   c. 125×8×341

8. Find the value of the following
   a. 860×999+860
   b. 3485×5×784+769×25×216
9. solve

a. How many whole numbers are there between 38 and 59.
b. How many whole numbers are there between 43 and 74.
c. Determine the sum of the four numbers as given below,
   i) Successor of 32
   ii) Predecessor of 49
   iii) Predecessor of the predecessor of 56
   iv) Successor of the successor of 67.
d. A loading tempo can carry 482 boxes of biscuits weighing 15kg each, whereas a van can carry 518 boxes each of the same weight. Find the total weight that can be carried by both the vehicles.

10. Check True or False

a. The smallest 5 digit number is the successor of the largest 4 digit number.
b. Every natural number is a whole number.
c. 1 is the smallest natural number.
d. Only one even prime number is 2.
Multiple choice questions
1. ______ is the factor of 81.
   a. 9  b. 8  c. 7  d. 5
2. Fifth multiple of 9 is ______.
   a. 54  b. 45  c. 36  d. 27
3. Which of them is not a prime number?
   a. 7  b. 11  c. 10  d. 13
4. The number of multiples of a given number is
   a. 1  b. 10  c. 100  d. infinite
5. Two numbers having only ______ as a common factor are called co-prime numbers.
   a. 1  b. 2  c. 3  d. 4
6. The HCF of two consecutive numbers is
   a. 0  b. 1  c. 2  d. 3
7. The LCM of two consecutive numbers is
   a. their sum  b. their product  c. their difference  d. none of these
8. ______ is a factor of every number.
   a. 1  b. 2  c. 3  d. 4
9. The smallest odd composite number is
   a. 5  b. 15  c. 9  d. 3
10. Two numbers having only 1 as a common factor are called ______ numbers.
    a. co-prime numbers  b. twin prime numbers  c. composite numbers  d. prime numbers.

Fill in the blanks:
11. Every multiple of a given number is greater than or equal to that ________.
12. The number ________ is the smallest prime number and is even.
13. A number is divisible by ________, if it is divisible by both 3 and 6.
14. HCF of 8 and 12 is ________.
15. First two multiples of 9 are ________.

Answer the following:
15. Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.
16. Check whether the given set are coprime or not  a)36,75  b)21,44
17. Find the LCM of the following numbers:  a)35,120,135  b)32,56,46
18. Determine the HCF of the given numbers by continuous division method
    a)225,300  b)390,1170
19. Find the largest no which divides 226 and 311 leaving remainder of 5 in each case
20. There are 3 heaps of wheat weighing 475kg,760 kg ,and 665kg .Find the maximum capacity of a bag so that the wheat can be packed in exact number of bags.
21. Sort out even and odd numbers: 43, 48, 61, 69, 80, 155, 332, 264, 89, 19, 76, 125, 64
22. Match the items in column I and column II.

<table>
<thead>
<tr>
<th>COLUMN I</th>
<th>COLUMN II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) 45</td>
<td>(A) multiple of 3</td>
</tr>
<tr>
<td>(ii) 15</td>
<td>(B) factor of 40</td>
</tr>
<tr>
<td>(iii) 24</td>
<td>(C) multiple of 7</td>
</tr>
<tr>
<td>(iv) 20</td>
<td>(D) factor of 30</td>
</tr>
<tr>
<td>(v) 35</td>
<td>(E) multiple of 9</td>
</tr>
</tbody>
</table>

23. (i) Using divisibility test, determine which of the following numbers are divisible by 9?
   (a) 672  (b) 5652
   (ii) Test the divisibility of following numbers by 11
      (a) 5335  (b) 9020814
   (iii) Using divisibility tests, determine which of the following numbers are divisible by 4?
      (a) 4096  (b) 21084  (c) 31795012

24. Find the HCF of 70, 105, 175.

25. Determine the smallest three digit number which is exactly divisible by 6, 8 and 12.

26. Is 70169308 divisible by 11 (use divisibility test)

27. Find the prime factorization of 980.

28. Express 53 as the sum of three odd primes.

29. Write seven consecutive composite numbers less than 100 so that there is no prime number between them.

30. The length, breadth and height of a room are 825cm, 675cm and 450cm respectively. Find the longest tape which can measure the three dimensions of the room exactly

31. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

32. Fatima wants to mail three parcels to three village schools. She finds that the postal charges are Rs 20, Rs 28 and Rs 36, respectively. If she wants to buy stamps only of one denomination, what is the greatest denomination of stamps she must buy to mail the three parcels?

33. Three brands A, B and C of biscuits are available in packets of 12, 15 and 21 biscuits respectively. If a shopkeeper wants to buy an equal number of biscuits of each brand, what is the minimum number of packets of each brand, he should buy?

34. In a school library, there are 780 books of English and 364 books of Science. Ms. Yakang, the librarian of the school wants to store these books in shelves such that each shelf should have the same number of books of each subject. What should be the minimum number of books in each shelf?

35. Using each of the digits 1, 2, 3 and 4 only once, determine the smallest 4-digit number divisible by 4.
INTERNSATIONAL INDIAN SCHOOL DAMMAM

MATHEMATICS WORKSHEET 2015-16   BMS CLASS: VI

INTEGERS

1) Represent the following as integers with appropriate signs:-
   a) Loss of rupees five thousand
   b) Withdrawal of rupees nine hundred
   c) A profit of rupees two thousand
   d) A submarine is moving at a depth of one thousand meter below the sea level
   e) An aeroplane flying at a height of three thousand eight hundred meter above the ground level
   f) Plant has grown 50 cm since last month
   g) Deposit of seven thousand rupees
   h) Gain of two hundred
   i) Leaf has grown 2 inches these week.

2) Write all the integers between the given pairs in descending order.
   a) -12 to -2  b) -7 to +7  c) -53 to -60  d) -1 to +8

3) Represent the following integers on number line
   a) -3  b) -8  c) +4  d) -5  e) +5  f) -1

4) Draw a number line and answer the following questions:-
   a) If we are at -5 on the number line in which direction would we move to reach -11
   b) Which numbers will we reach if we move 5 numbers to the left of 3
   c) Which number will we reach if we move 7 numbers to the left of 4

5) Use number line and add the following
   a) 5+(-5)
   b) (-1)+4+(-7)
   c) (-2)+(-1)+(-5)
   d) 2+(-3)+5
   e) 9+(-7)+(-2)
6) Find
   (i)  20 + (-18)
   (ii) (-21) + (-42) + (-11)
   (iii) (-42) + 32
   (iv) 550 + (-300)
   (v)  (-182) + (-32) + 50
   (vi) (-19) - 9 + (-18)
   (vii) 850 - (-250)
   (viii) 50 + (-20) - (-80)

7) Subtract -5 from -18

8) Subtract -12 from 25

9) Subtract 50 from -125

10) Fill in the blanks
    a) 12 + ( ) = 0
    b) _____ - 10 = -5
    c) -12 + ( ) = -24
    d) 18 + (-18) = _____
    e) -14 + ( ) = 7

11) Fill in the blanks with <, > or = sign
    a) (-12) + (-5) _____ -12 + 5
    b) -50 + (-20) _____ (-40) + (-30)
    c) 18 - (-2) _____ -18 + (-2)
    d) -10 - (-10) _____ -10 + (-10)

12) Find the sum of
    a) 250, -500 and 350
    b) -358, -242, 100, -150
    c) (-37) + (55) + (-20)
    d) (-15) + (-14) + (-5)
    e) 18 + (-20) + (-18)
INTERNATIONAL INDIAN SCHOOL, DAMMAM
MATHEMATICS WORKSHEET 2015-2016

CLASS VI

DATA HANDLING

1. Fill in the blanks.
a) A ______ is a collection of numbers gathered to give some information.
b) The number of times a particular value in data occurs is called its _____.
c) The difference of maximum and minimum value in data is called _____.
d) ______ is representation of data using pictures.
e) Bars are of uniform ______ in a bar graph.

2. Following pictograph shows the number of students in different classes in a school.

<table>
<thead>
<tr>
<th>Class</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>☺☺☺☺☺</td>
</tr>
<tr>
<td>4</td>
<td>☺☺☺☺</td>
</tr>
<tr>
<td>5</td>
<td>☺☺☺☺☺☺</td>
</tr>
<tr>
<td>6</td>
<td>☺☺☺☺☺</td>
</tr>
<tr>
<td>7</td>
<td>☺☺☺☺☺☺</td>
</tr>
<tr>
<td>8</td>
<td>☺☺☺☺☺</td>
</tr>
</tbody>
</table>

1☺=6 students

Observe the pictograph and answer the following questions

a) Which class has minimum number of students?
b) Is the number of students in class 6 less than number of students in class 8?
c) Which class has maximum number of students?
d) What is the difference between number of students in class 8 and 5?

3. The following are the details of students about the different modes of transport used by them to travel to school. Draw a pictograph based on the following observations. Use ☺ = 10 students
<table>
<thead>
<tr>
<th>Mode of travelling</th>
<th>Private car</th>
<th>Public bus</th>
<th>School bus</th>
<th>Cycle</th>
<th>Walk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of students</td>
<td>100</td>
<td>70</td>
<td>250</td>
<td>40</td>
<td>20</td>
</tr>
</tbody>
</table>

4. A shoe store in a local mall has recorded the number of each type of shoes that have been sold in the past month. Construct a bar graph to represent the following data.

<table>
<thead>
<tr>
<th>Type of shoes</th>
<th>Pairs sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flip-flops</td>
<td>35</td>
</tr>
<tr>
<td>Tennis shoes</td>
<td>60</td>
</tr>
<tr>
<td>Sandals</td>
<td>42</td>
</tr>
<tr>
<td>High heels</td>
<td>37</td>
</tr>
<tr>
<td>Boots</td>
<td>29</td>
</tr>
<tr>
<td>Walking shoes</td>
<td>32</td>
</tr>
<tr>
<td>Running shoes</td>
<td>30</td>
</tr>
<tr>
<td>Loafers</td>
<td>34</td>
</tr>
</tbody>
</table>

5. In a family different members have different choice of fruits, as shown in the table. Draw a bar graph to represent the given data.

<table>
<thead>
<tr>
<th>Fruits</th>
<th>Number of persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grapes</td>
<td>2</td>
</tr>
<tr>
<td>Blackberries</td>
<td>8</td>
</tr>
<tr>
<td>Watermelon</td>
<td>11</td>
</tr>
<tr>
<td>Blueberries</td>
<td>9</td>
</tr>
<tr>
<td>Coconuts</td>
<td>4</td>
</tr>
<tr>
<td>Bananas</td>
<td>6</td>
</tr>
<tr>
<td>Pears</td>
<td>10</td>
</tr>
</tbody>
</table>

a) What is the difference between the number of people who chose pears and the number of people who chose watermelons?
b) How many people chose neither blackberries nor watermelons?
c) How many people did not chose bananas as their favourite fruit
INTERNATIONAL INDIAN SCHOOL DAMMAM
VI WORKSHEET 2015 – 2016

BASIC GEOMETRICAL IDEAS

1. How many points does the following fig has?

2. In the given fig the ray will be named as

3. How many lines passes through one given point?

4. The line segment forming a polygon are called _____________.
   a. sides b. angles c. curve d. vertices

5. Two distinct lines meeting at a points are called _____________.
   a. collinear lines b. none of these. c. parallel lines d. intersecting lines.

6. An angle is made up of two _______ starting from common end point.
   a. Lines b. vertices c. points d. rays

7. A flat surface which extends indefinitely in all directions is called _____________.
   a. Point b. lines c. plane d. line segment.

8. Number of lines which can be draw from one point.
   a. 2 b. 9 c. 1 d. Infinite.
9. Write the pair of opposite sides, adjacent angles, adjacent sides, opposite angles in the given figure?

10. A _______ of a circle is a line segment joining any two points on the circle.
   a. Chord    b. radius    c. diameter    d. none

11. If two lines intersects each other then the common point between them is known as point of ________.
    a. Concurrence    b. vertex    c. contact    d. intersection

12. Two lines in a plane either intersect exactly at one point or are
   a. Equidistance    b. perpendicular lines    c. parallel    d. equal

13. Three or more points lying on the same line are known as ________ points.
    a. Collinear    b. non collinear    c. intersecting    d. none

14. Two lines meeting at a point are called _________.
    a. intersecting lines    b. parallel lines    c. concurrent lines    d. none

15. A line has ________ length.
    a. Indefinite    b. none    c. definite    d. no

16. The edge of a ruler draws _________.
    a. Curve    b. line    c. segment    d. ray

17. If a line can be drawn through a set of points, then the points are called ______ points.
    a. non-collinear    b. collinear    c. congruent    d. none

18. When two lines lie in the same plane and do not intersect, they are called _______.
    a. perpendicular lines    b. intersecting lines    c. parallel lines    d. None

19. An angle divides the plane into how many regions?
    a. 4    b. 2    c. 3    d. None

20. Which of them is a ray?
    d. rail lines    b. An edge of the post card    c. An edge of a box    d. Sun rays.
21. A figure is a ____________ if it is a simple closed figure made up entirely of line segments.
   a. Line   b. line segment   c. curve   d. polygon

22. An ____________ is made up of two rays starting from a common end point.
   a. Ray   b. Line segment   c. Angle   d. Line

23. The meeting point of a pair of sides is called a ____________.
   a. angle   b. point of contact   c. Vertex   d. Edges.

24. The distance around the circle is the ____________.
   a. Chord   b. circumference   c. diameter   d. radius

25. The line segments forming a polygon are called its ____________.
   a. Angle   b. side   c. vertices   d. none

26. How many diagonals are there in a pentagon?
   a. 2   b. 6   c. 3   d. 4

27. Three or more points which lie on a same line are called
   a. non collinear   b. collinear   c. point of concurrence
   d. straight lines

28. The number of line segments in the adjoining figure

   ![Triangle](image)

   a. 2   b. 3   c. 5   d. 6

29. Geometrical figure which has no dimension is
   a. Plane   b. line segment   c. line   d. point

30. The lines which do not intersect and have equal distance between them are called
   a. straight lines   b. intersecting lines   c. perpendicular lines
   d. parallel lines

31. Draw a circle of radius 6 cm and mark the following
   i. A sector   ii. A diameter   iii. Three radii   iv. An arc   v. A chord
   vi. One point in the interior and one point in the exterior.
32. How many line segments are there in the following figure.

33. Name the following from the given figure.
   i. All the vertices
   ii. All the diagonals
   iii. All the line segments

34. In the given figure write the names of
   i. Any five line segments
   ii. Line passes through point S
   iii. any three pairs intersecting line segments
   iv. Two pairs of non-intersecting line segments
   v. Any 3 rays