Directorate of Education

Govt. of NCT of Delhi

Worksheets for the Session 2012-2013
Subject : Mathematics

Class : VI

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Worksheet - 1
Class VI
Chapter - 1 (Knowing Our Numbers)

1.   Fill in the blank

     i)   The number name of 8090056 is _____.

     ii)   The greatest number of 8 digits using 3, 0, 1, 8 is _____ .

     iii)   Sum of x and L in numerals is _____ .

2.   Match the place value of 4 in each case.

     i)   1450916   4000

     ii)   4802357   400000

     iii)   33234901   4000000

3.   i)   10 Lakh means

     a)   1 million   b)   10 million   c) 100 million   d) 1000 million

     ii)   CXXV write in Hindu-Arabic numeral is

     a)   25   b)   125   c) 135   d) 105

     iii)   2315 when rounded to the nearest tens is

     a)   2310   b)   2320   c) 2300   d) 2316

4.   Write your Date of Birth in Roman Numerals _____ .

5.   Estimates : 8325 - 491

6.   In given figure, find distance in kilometers.
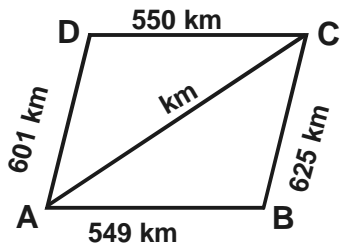
     a)   from C to A through B.

     b)   from A to d.

Activity : Write your Date of Birth in given column below

DATE MONTH   YEAR

     i)   Write the name according to Indian System

     ii)   Write name according to International System

Worksheet - 2

Class VI

Chapter - 2 (Whole Numbers)

1. Fill in the blank

    i)   Two consecutive predecessors of 4010 are _____ & _____.

    ii) Smallest whole number is _____.

    iii) Additive identity of whole number is _____.

    iv) Successor of 99 is _____.

    v) $10000 \times 0 =$ _____ .

2. Match the following

    i)   Commutative property over addition   a) a×(b+c) = a×b+a×c

    ii) Commutative property over multiplication   b) a+(b+c) = (a+b)+c

    iii) Distributive property of multiplication over addition   c) a×(b×c) = (a×b)×c

3. MCQ

    i)   Predecessor of natural number 1.

         a) 0   b) 2   c) 10   d) doesnot exist

    ii) Find the value of (1063×127 - 1063×27)

         a) 100000   b) 106300   c) 839700   d) None

    iii) 5 ÷ 0 gives.

         a) 5   b) 0   c) Not defined   d) None

    iv) How many whole numbers are there between 53 and 72.

         a) 18   b) 19   c) 20   d) 17

4. Solve :-

    i)   Find 3+5 using number line.

    ii) Find by using suitable property

         i)   8×475×125

         ii)   225×102

Worksheet - 3
Class VI
Chapter - 3 (Playing with Numbers)

1. Fill in the blank

    i)   _____ is a factor of every number.

    ii) Only even prime number is _____.

    iii) If sum of digits of a number is divisible by 9 then number is divided by _____.

2. Match the following

    i)   A number which is exactly divisble by 2   odd numbers

    ii) A number which is not exactly divisible by 2   even numbers

    iii) A natural number greater then 1 which has no   prime numbers
         factors except 1 and itself.

3. Put (   ) on correct answer.

    i)   The smallest prime number is

         a) 1   b) 2   c) 3   d) -1

    ii) Which of these number is divisible by 2, 10, 5.

         a) 3240   b) 6215   c) 8102   d) 2341

    iii) HCF of 11 and 77 is

         a) 11   b) 77   c) 7   d) 1

4. Write first five multiples of 8.

5. LCM of 7 and 8 is _____ .

6. HCF of two consecative numbers is _____ .

7. Complete the factor tree
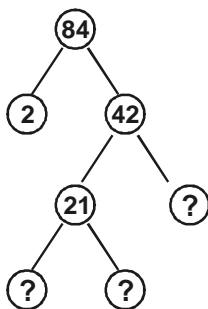
Worksheet - 4
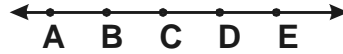
Class VI

Chapter - 4 (Basic Geometrical Concepts)

1. Fill in the blank

    i)   Distance around a circle is its _____.

    ii) In given line

         $\overline{AC}$ = $\overline{AB}$ + _____   A B C D E
         $\overline{BC}$ = $\overline{BD}$ - ....

    iii) An angle is formed by two _____ with same initial points called vertex.

2. Match the following

    i)   B   a) Ray
                                         A

    ii)   B   b) Line Segment
                          A

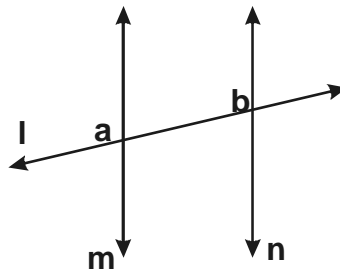   iii)   B   c) Line
                    A

3. Name the intersecting pairs of line and points of intersection.

4. In the following figure, answer the questions :-

    i)   Name the diameter of circle _____.

    ii) Name any radius of circle _____.
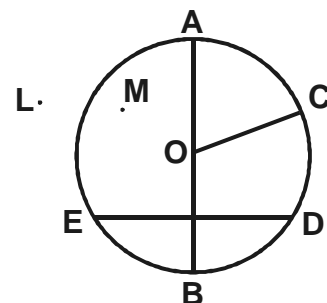
    iii) Name centre of the circle _____.

    iv) Name chord of circle other than diameter _____.

    v)   One interior point in the circle _____.

    vi) A point on the circle _____ .

    vii) Any exterior point of circle _____ .

Worksheet - 5

Class VI
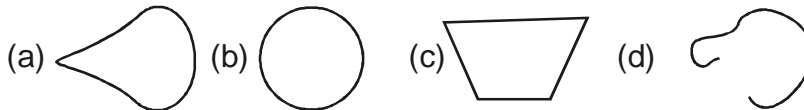
Chapter - 4 (Basic Geometrical Concepts)

1. Fill in the blank

   i)   A triangle is a sided polygon.

   ii) a quadrilateral is a _____ sided polygon.

   iii) from two points, a _____ can be drawn.

2. MCQ

   i)   Identify the open curve from the following :-

   (a)   (b)   (c)   (d)

   ii) Identify the polygon from the figure :-

   iii) A pair of lines which don't intersect at any point :-   (a)   (b)   (c)   (d)
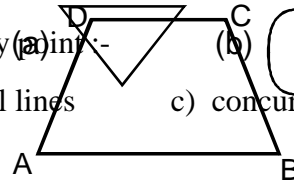
   a) Perpendicular lines   b) parallel lines   c) concurrent lines   d) none

   iv) A _____ is a mark of position.
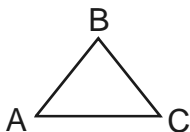
3. Here is a rough sketch of a quadrilateral ABCD.

   State

   i)   Two pairs of opposite sides _____.

   ii) Two pairs of adjacent angles _____ .

   iii) Two diagonals _____.

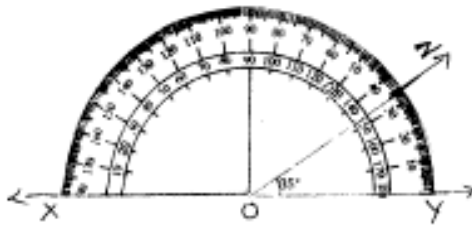2. Name the angles in the triangle

   a)   ∠ ABC   b)   _____,   c)   _____.

Worksheet - 6

Class VI

Chapter - 5 (Understaning Elementary Shapes)

1. What is angle name of haf a revolution?

    ∠YOZ = _____   ∠BOC = _____

    Its is acute or obtuse   It is acute or obtuse

2. Match the following :-

    Measure of sides / angles of triangle   Type of triangle

    i)   3 sides equal   scalene

    ii)   2 sides equal   Isosceles right angled

    iii) All sides different   Obtuse angled

    iv)   all angles acute   Right angled

    v)   1 right angle   Equilateral

    vi)   1 Obtuse angle   Acute angled

    vii) 1 right angle and two sides equal   Isoeceles

3. Draw these figure.

    a)   A regular pentagon

    b)   A parallelo gram

4. Match the figures with the name

    i)   a)   Cylinder

    ii)   b)   Cone

    iii)   c)   Shere
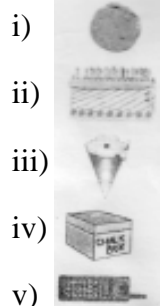
    iv)   d)   Cubiod

    v)   e)   cube

Worksheet - 7

Class VI

Chapter - 6 (Integers)

1.   Fill in the blanks :-

   i)   The set of whole numbers andnegative numbers is called _____.

   ii)   Put the correct sign (>, <, =)

      i)   (-14) + (-6) _____ (-14) - (-6)

      ii)   45 - (-11) _____ 57 + (-3)

   iii) 16 + (-16) = _____.

   iv)   -5 + _____ = 0

2.   Match the following :-

   i)   4 + 3   a) -1

   ii)   -4 + 3   b) 7

   iii) -4 - 3   c) 1

   iv)   4 - 3   d) -7

3.   MCQ

   i)   On subtracting -8 from 0, we get

      a) 0   b) 8   c) -8   d) 5

   ii)   Additive inverse of -5 is

      a) 5   b) -4   c) 0   d) None

   iii) (-42) + (-35) is equal to

      a) -7   b) -77   c) 77   d) 7

4.   Solve :-

   i)   Write all the integers in ascending order between 0 & -6.

   ii)   Represent in integer form

      i)   A submarine is 500m below the sea level.

      ii)   Deposit of ₹1000 in your account

   iii) Solve on the number line

      i)   (-5) + 2

      ii)   (-5) - (-10)

Worksheet - 8
Class VI
Chapter - 7 (Fractions)

1. Fill in the blanks by using >, < or = in the following to make correct statements.

    a) $\dfrac{5}{8}\ \square\ \dfrac{7}{8}$ b) $\dfrac{5}{21}\ \square\ \dfrac{7}{7}$ c) $\dfrac{2}{3}\ \square\ \dfrac{10}{15}$
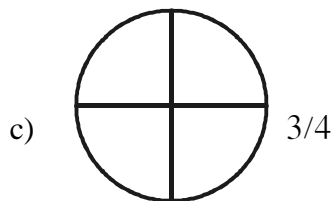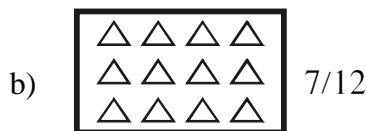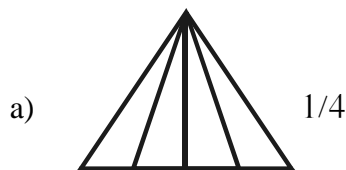
2. Match the following :-

    i) $\dfrac{12}{15}$ Mixed Fraction

    ii) $\dfrac{25}{11}$ Proper Fraction

    iii) $3\dfrac{2}{9}$ Improper fraction

3. Shape the figures for the fraction given below it.

    a)   1/4

    b)   7/12

    c)   3/4

5. Write next three fractions equivalent to $\dfrac{1}{5}$

6. Simplify : $\dfrac{2}{7}\ +\ \dfrac{3}{14}$

7. Draw $\dfrac{2}{7}$ at number line.

8. Write in $\dfrac{2}{3},\ \dfrac{2}{5},\ \dfrac{2}{4},\ \dfrac{2}{9}$ asending order.

9. Write $\dfrac{15}{75}$ in simplest form.

Worksheet - 9

Class VI

Chapter - 8 (Decimals)

1. Fill in the blanks.

    i)   Write 2.08 in the place value table _____ _____ _____

    ii) Write 2.5 as fraction iin lowest term _____ _____

    iii) Show 1.2 on number line.

    iv) 3755 gm = _____ kg.

    v)   152 mm = _____ cm.

    vi) 13.9 lies between _____ & _____ and nearest to _____ on number line.

2. Match the following :-

    i)   Three ten and eight tenth   a)   320.09

    ii) Thirty six and seven hundredth   b)   30.8

    iii) $300+20 + \dfrac{9}{100}$ c)   36.07

3. MCQ

    i)   2 - 0.7 is equal to

         a) 0.5   b)   1.3   c) 1.9   d) 1.5

    ii) Which is greater 2.1 or 2.155

         a) 2.155   b)   both are equal   c) 2.1   d) can't compare

    iii) 3.5 + 4.05 - 6.005 is equal to

         a) 1.095   b)   1.600   c) 1.950   d) 1.545

4. Solve

    i)   What is to be added to ₹ 82.5 to get ₹90.

    ii) Find the sum of 280.68+28.5+38

    iii) Which is lesser an why? 2.08 or 2.083

    iv) Sita brought fruits weigh 20kg. Out of this 5 kg 500 gm are apples and 4 kg are oranges an rest are banans. What is weight of banans?

Worksheet - 10

Class VI

Chapter - 9 (DATA HANDLING)

1. Fill in the blanks.

    i) Representation of data in form of pictures is called _____.

    ii) In a bar graph width of rectangle is always _____.

    iii) The tally mark ⊮⊮ represents _____.

2. Complete the following Table.

Tally Marking	Frequency
⊮⊮ |	6
⊮⊮ |	--
|||	--
⊮⊮ |||	--

3. Students on roll of a school during 4 years is given in the folloing pictograph.

Year	Number of students
2006	✻ ✻ ✻
2007	✻ ✻ ✻ ✻
2008	✻ ✻ ✻ ↲
2009	✻ ✻ ✻ ✻ ↲

✻ represent = 100 Students

Answer the following questions.

a) How many students were on roll in year 2007 ?

b) How many students were more in 2009 than 2008?

4. Bar graph shows the number of students in different classes of a school. Read the graph and answer the following questions.

    a) How many students are in class X?

    b) How many students are in class VII?

    c) How many students are in class IX?

Classwise students
1 Unit = 10 student
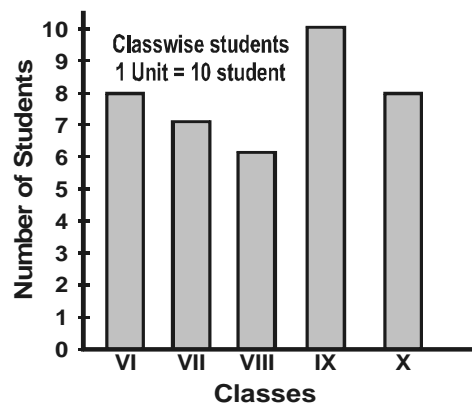
Worksheet - 11

Class VI

Chapter - 10 (Mensuration)

1. Fill in the blanks.

    i)   Distance covered along the boundary of a close figure _____.

    ii) Perimeter of a rectangle is =

    iii) Area of a square =

    iv) Perimeter of an equilateral triangle =

    v)   1 cm = _____ mm

    vi) 1 kilometer = _____ metre
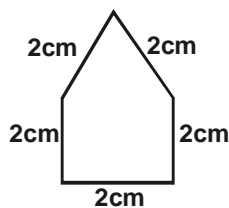
2. MCQ

    i)   The amaint of surface enclosed by a close figure is

         a) Volume   b) area   c) side   d) perimeter

    ii) One square meter = _____ square cm.

         a) 100   b) 1000   c) 10000   d) 10

    iii) _____ is measured in square units.

         a) Perimeter   b) area   c) side   d) Volume
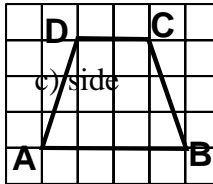
3. Solve :-

    i)   Find the perimeter of the figure.

    ii) Find the area in square meter of a piece of cloth, 5m long and 2m wide.

    iii) By counting the squares, estimate the area of the figure

    iv) A rectangular hall is of length 14m & breadth 12m. How many square tiles
         of side 10cm are are neeed to cover the floor of the hall.

Worksheet - 12

Class VI

Chapter - 11 (Algebra)

1. i)   Write equation for the given picture
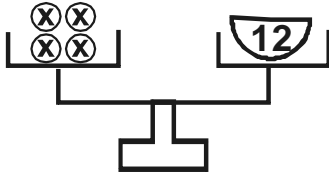
   ii)   _____ No. of matchsticks are use in a pattern of letter F

   iii) 5 is added to P, the expression is _____ .

2. Match following with their expressions.

   i)   x is added to 8   4x-2

   ii) x is multiplied by 9   x+8

   iii) 4 times x and 2 is subtracted   9x

3. What will be perimeter of square have side 9 cm.

4. If Maya's present age is x years then what will be her age two years ago.

5. There are some expression given below. Which of these are equations.

   i)   x - 5 > 9   ii) 8+5 = 9   iii) 9x<5   iv) 2x + 1 = 15

6. Give expressions for the following :

   i)   k is multiplied by 10.   _____

   ii) x is multiplied by 2 and 9 is subtracted   _____

   iii) z is divided by 9 _____

7. Pick out the solution of equation from values given in the bracket next to equation.

   P + 5 = 9   (3, 0, 4, -4)

Worksheet - 13

Class VI

Chapter - 12 (Ratio and Proportion)

1. Fill in the blanks :

    i) Ratio of 20 minutes to 2 hrs.

    ii) $\dfrac{24}{18} = \dfrac{\square}{3} = \dfrac{8}{\square}$

    iii) Are 13, 39, 7, 21 is proportion ? _____

2. Match the following :-

    If a, b, c, d are first, second, third and forth term of proportion, then

    i)   first and fourth terms are   a)   Product of middle values (b×c)

    ii) Second and third terms are   b)   extreme values

    iii) product of extremes (a×d)   c)   middle values.

3. MCQ

    i) The ratio of 60cm to 1.5 meter is

        a) $\dfrac{3}{5}$ b) $\dfrac{2}{5}$ c) $\dfrac{4}{5}$ d) $\dfrac{1}{5}$

    ii) If cost of one book is ₹15, cost of 9 books will be

        a) ₹108   b) ₹120   c) ₹135   d) ₹150

    iii) If x : 32 : : 4 : 16, then value of x is

        a) 16   b) 8   c) 4   d) 15

4. Solve

    i) Divide 50 pens in the ratio 2 : 3 _____

    ii) The length and breadth of a rectangular field are in the ratio 4 : 5. If length is 20m, find breadth of the field.

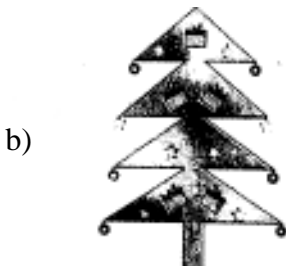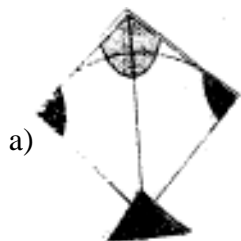   iii) If the cost of 12m of cloth is ₹300, find the cost of 8m cloth.

Worksheet - 14

Class VI

Chapter - 13 (Symmetry)

1. Draw line of symmetry for following figures ?

    a)   b)   c)

2. Draw mirror image of following words

    C __ J __

    U __ T __

3. Match the following :-

    Figures   Line of Symmetry

    a) Equilateral triangle   four
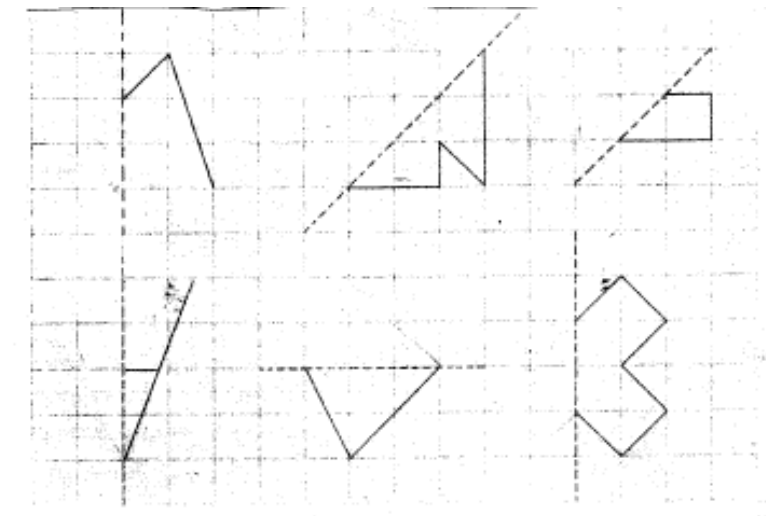
    b) Square   Many

    c) Circle   Three

4. Draw other half of each figure to make it symmetrical. In each figure the dotted line is the line of symmetry.

Worksheet - 15

Class VI

Chapter - 14 (Practical Geometry)

1.   Fill in the blanks :-

   i)   If diameter of a circle is 18cm, the radius is _____.

   ii)   The longest chord of a circle is _____ .

   iii) Number of circles passing through a given point are _____.

   iv)   Circle which have same centre but diffrent radii are called _____ circles.

   v)   Angles of set squares are (i) _____ 45^0 _____ (ii) 30^0 _____ _____

2.   Refer to the figure given below, answer the following.

   i)   Name any radius of the circle _____

   ii)   Name centre of the circle _____

   iii) Name any segment of the circle _____

   iv)   Name one sector of the circle _____

   v)   Name any point in the interior of the circle _____

   vi)   Name any exterior point of circle _____

   vii) Name any point on the circle _____
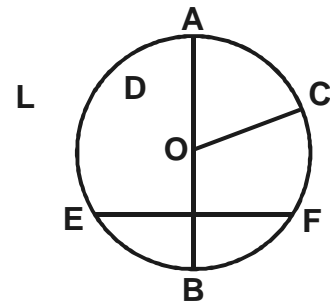
3.   Solve

   i)   Given $\overline{AB}$ = 3cm & $\overline{CD}$ = 4cm, construct a line segment $\overline{xy}$ equal to sum of $\overline{AB}$ & $\overline{CD}$.

   ii)   Draw a line segment of length 5cm and construct its perpendicular bisector.

   iii) Draw an angle of 60^0 an construct its bisector.