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| **logo** | **INDIA INTERNATIONAL SCHOOL-MANGAF**  **HOLIDAY ASSIGNMENT 2018-2019**  **CLASS-VII MATHEMATICS**  **SIMPLE EQUATIONS** |

1. Solve the following equations by trail-and-error method

(i) x + 3 = 12 (ii) 2x + 4 = 3x (iii) =5

2. Solve the following equations

(i)  (iii)  (iv)  (v) 

(vi)  (vii)  (viii)  (ix) 6(*x*+2) – 3(*x*+7) = 4 (x) 

(xi)  xii) = (xiii) – 8 = 14 (xiv) 5 (2 – 3 *x*) – 17(2y–5) = 16

(xv) –5 + 7(y+5) = 16 (xvi) 3 m – 7 = m + 5 (xvii) 3 (y+ 6) = 24 (xviii) – 2 = – 1

3. Write the following sentences in equations

(i) The difference of x and 5 is two times of x

(ii) One-third of z gives 30

(iii) Half of the sum of a and 2 is 30

(iv) One-fourth of a number minus 5 gives 4

(v) Five times a number z is 15

4. Write the following equations in statement form

(i)  (ii) 5y – 2 = 27 (iii)  (iv) 4p = 10

5. The sum of the three times a number and 11 is 45. Find the number.

6. Find the number which when multiplied by 7 is increased by 78.

7. The difference between two numbers is 7.Six times the smaller number plus the larger

number is 77.Find the number.

8. The length of a rectangular field is twice its breadth. If the perimeter of the field is

228 m, find the dimensions of the field.

9. Mrs.Jain is 27 years older than her daughter Nilu. After 8 years she will be twice as

of Nilu.Find their present ages.

10.4 subtracted from a number&then divided by 7, gives10 as the quotient.Find the number.

11.A number is times another number.If their sum is 104, find the number.

12. Thrice a number when increased by 4 gives 40. Find the number.

13. Construct 3 equations starting with i) x = –3 ii) y = – 5 iii) x = 4 iv) z = –1

v) m=–2

**SYMMETRY AND VISUALISING SOLID SHAPES**

1) Write the number of lines of symmetry for

i) an equilateral triangle ii) rectangle iii) an isosceles triangle iv) a circle

v) Regular hexagon vi) square

2) Give three examples of shapes having no lines of symmetry.

3) Draw the lines of symmetry and write the order of rotational symmetry of

i) an equilateral triangle ii) A regular pentagon iii) square iv) rectangle

v) a regular hexagon

4) Draw a figure showing 3 lines of symmetry and rotational symmetry of

order 3 with the position of figure when rotated through various angles.

5) Draw any three figures that have both a line of symmetry and a rotational symmetry of order more than 1.

6) Write the angle of rotation of the following figures

a) Trapezium b) Rhombus c) Parallelogram d) Equilateral Triangle

e) Regular Pentagon f) Regular hexagon g) Isosceles right angled triangle h) Semicircle

7) Explain one dimensional, two dimensional and three dimensional figures and give three examples for each.

8) Name the number of edges, faces and vertices of cube, cuboid, triangular

prism, hexagonal prism, cylinder,cone ,sphere, triangular pyramid, square

pyramid.

9) Draw nets for cube,cuboid,cylinder,cone,square pyramid ,sphere, triangular

pyramid, triangular prism.

10)Draw the horizontal and vertical cross sections of cube, cuboid, cylinder, sphere and cone.

11) Draw the cross sections you get when you cut the following objects both horizontally and vertically.

  

11) Draw the top view, front view and side view of any 5 solids of your choice.

12) Draw an oblique sketch of a cube with an edge 5cm long.

13) Draw an oblique sketch of a cuboid whose length, breadth and height are

6 cm, 4cm and 3 cm respectively.