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| **logo** | **INDIA INTERNATIONAL SCHOOL-MANGAF**  **HOLIDAY ASSIGNMENT 2018-2019**  **CLASS-VI MATHEMATICS**  **PLAYING WITH NUMBERS** |

1) Find all the factors of

a) 36 b) 50 c) 56 d) 60 e) 72 f) 45 g) 85 h) 15 i) 18 j) 24

2) Write first five multiples of a) 11 b) 40 c) 25 d) 34 e) 75

3) Write the multiples of 5 between 20 and 40.

4) Write all the prime numbers between 1 and 30.

5) Express the following as directed

a) 63 (as sum of 3 odd primes)

b) 36 (as sum of twin primes)

c) 98 (as a sum of two odd primes)

d) 71 (as a sum of three odd primes)

6) Write any five pairs of coprime numbers.

7) Check whether the following pairs are coprime or not.

a) (23, 46) b) (49, 81)

8) Test for the divisibility of the following numbers as directed

a) 60012 (divisible by 3 or not)

b) 7236 (divisible by 9 or not)

c) 28544 (divisible by 8 or not)

d) 32584 (divisible by 4 or not)

9) Find the HCF by Prime factorization method.

i) 90,120,150 ii) 91, 112, 49 iii) 70,105,175 iv) 12, 45, 75

10) Find the HCF by long or continued division method

a) 550,935 and 1320 b) 117,130 and 143 c) 106,159 and 371

11) Find the LCM by division method

i) 28,35,42,56 ii) 48, 72,108 iii) 63, 70, 77 iv) 28,36,45,60

v) 12,15,18,24 vi) 39, 65,130,156 vii) 12,18,24,36 viii) 25, 40, 60

12) Find the greatest number that will divide 398, 436 and 542 leaving a remainder of 7,11

and 15 respectively

13) Find the least number which when divided by 9,12,16 leaves a remainder 3 in each case.

14) Three bells toll at intervals of 9, 12, 15 seconds respectively, beginning together. After

what interval of time will they toll together?

**BASIC GEOMETRICAL IDEAS**

1) Define a polygon. Draw a polygon having a) 3 sides b) 4 sides c) 6 sides

2) Can you draw a polygon with two line segments?

3) In triangle PQR, name the following (i) sides (ii) vertices (iii) angles

4) Draw any quadrilateral and name its

(i) sides (ii) angles (iii) vertices (iv) opposite sides (v) adjacent sides

(vi) opposite angles (vii) diagonals

5) Define the following terms (i) Radius (ii) chord (iii) sector (iv) secant of a circle

6) Draw a circle and mark

(i) Center (ii) Radius (iii) Diameter (iv) Sector (v) chord (vi) Arc

vii)Segment

7) FILL IN THE BLANKS

a) The collinear points lie on ----------------------- line

b) A closed figure having 4 sides is called--------------------------------------

c) The point of intersection of two adjacent sides of a polygon is called its

d) Number of triangles formed by three non-collinear points is ---------------------

e) A triangle has -------------------- parts

f) Diameter of a circle = ------------- times of radius

g) The perimeter of a circle is called -------------------------

h) Number of least match sticks to form a polygon is ----------------------

i) Number of diagonals in a triangle is ……………………………

j) The number of diameters in a circle is --------------------------------

k) The diameter of a circle is the ………………. chord of the circle.

l) A quadrilateral whose opposite sides are parallel is called …………………

m) Total number of parts of a triangle is ……………………..

n) A triangle with two of the sides of equal length is called ………….......triangle.

o) A complete distance around a circle is called …………..

8) The diagram shows two intersecting lines AB and CD .Name at least 6 angles that are formed by the rays.

A C

E

D B

9) Draw: i) 5 open curves ii) 5 closed curves