MODERN PUBLIC SCHOOL, SEC-37 FBD

SUMMER HOLIDAYS HOME WORK (2022-23)

SUB. - MATHS , CLASS - VIII

Q.1 The sum of two rational Numbers is $-3/5$. If one of the number is $-9/20$, find the other.

Q.2 Simplify :- (a) $-\frac{2}{3}+\frac{5}{9}-\left(-\frac{1}{6}\right)$ (b) $\frac{5}{3}-\frac{1}{6}+\frac{2}{3}$

Q.3 Simplify :- $\left(\frac{-7}{18}\times\frac{15}{-7}\right)-\left(1\times\frac{1}{4}\right)+\left(\frac{1}{2}\times\frac{1}{4}\right)$

Q4 Divide the sum of $\frac{65}{12}$ and $\frac{12}{7}$ by their difference.

Q5 Find ten rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$.

Q6 Solve :- $\frac{x+2}{3}-\frac{x+1}{5}=\frac{x-3}{4}-1$

Q7 Solve and verify your answer :- $\frac{1-9y}{19-3y}=\frac{5}{8}$

Q8 The numerator of a fraction is 4 less than the denominator. If 1 is added to both its Numerator and denominator, it becomes $1/2$. Find the fraction.

Q9 Ram is three years older than Raj. Six years ago, Ram's age was four times Raj's age. Find the ages of Ram and Raj.

Q10 The ages of Sonu and Monu are in the ratio 7:5. Ten years hence, the ratio of their ages will be 9:7, Find their present ages.

Q11 How many sides does a regular polygon have if the measure of an exterior angle is 24°?

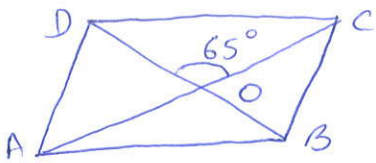
Q12 The interior angle of a regular polygon is 156°. Find the number of sides of the polygon.

Q13 Two adjacent angles of a parallelogram are as 2:3. Find the measures of all the angles.

Q.14 In fig. ABCD is a parallelogram in which $\angle DAO = 40^\circ$, $\angle BAO = 35^\circ$ and $\angle COD = 65^\circ$, Find

a) $\angle ABO$ (b) $\angle ODC$ (c) $\angle ACB$

d) $\angle CBD$



Q15 The diagonals of a rectangle ABCD meet at O. If $\angle BOC = 44^\circ$, find $\angle OAD$.

Q16 Construct a quadrilateral XYZW in which XY = 5cm, YZ = 6cm, ZW = 7cm, WX = 3cm and XZ = 9cm

Q.17 Construct a quadrilateral ABCD, when AB = 3cm, CD = 3cm, DA = 7.5cm, AC = 8cm, BD = 4cm

Q18 Construct a quadrilateral ABCD in which AB = BC = 3cm AD = CD = 5cm and $\angle B = 120^\circ$

Q19 Construct a quadrilateral PQRS in which PQ = 3.5 cm, QR = 2.5cm, RS = 4.1cm, $\angle Q = 75^\circ$, $\angle R = 120^\circ$

Q20 Construct a quadrilateral PQRS, PQ = 3.5 cm, QR = 6.5cm, $\angle P = \angle R = 105^\circ$, $\angle S = 75^\circ$

o—— x ——o

NOTE-1 Do practice of practice - 1, 2, 3, 4 in Rough note book

NOTE-2 Do Holidays Home work in fair register.

ACTIVITY: Draw the different types of quadrilateral on A3 size sheet. Also write the properties of each quadrilateral.

Anita