



K. R. D. International School

CLASS – 8<sup>TH</sup> MATHS H.H.WORK ASSIGEMENT 2024-25



(LINEAR EQUATIONS)

**Q-1 Solve linear equations.**

(i)  $\frac{x+1}{7} = \frac{-2x-2}{2}$

(ii)  $-x + \frac{7}{2} = \frac{61}{4} - 5x$

(iii)  $-\frac{7}{2}(x-2) = -\frac{6}{7}(2x-4)$

(iv)  $-\frac{6}{2}\left(\frac{x}{2} - \frac{1}{2}\right) = -\frac{1}{2} + 2x$

(v)  $-\frac{6}{2}(1 - 0.7x) = -\frac{6}{7} + 2x \times \frac{1}{8}$

(vi)  $-x\left(1 - \frac{7}{2}\right) + \frac{7x}{4} = \frac{-2x+1}{4}$

(vii)  $-2 + 0.4 \times 0.1 + \frac{x}{2} = \frac{-4x-1}{-4}$

(viii)  $-3 + \frac{x}{2}\left(\frac{7}{2} - 4\right) = -\frac{9x}{2} - 4$

(ix)  $\frac{-4+x}{2} - \frac{2x+1}{2} = -\frac{7}{2}$

(x)  $-6x - \frac{1}{2}(x-7) + 0.7 \times 10 = -\frac{7}{2}(x-2)$

Rational number

**Q-2 Define rational and irrational numbers.  
Explain with examples.**

Q-3  $-\frac{7}{2} + \frac{7}{2} \times \frac{4}{7} - \frac{1}{3} + \frac{6}{2}$

Q-4 find  $-\frac{1}{3} \times \frac{2}{7} - \frac{5}{7} - \frac{2}{7} \times \frac{8}{9}$

(by using properties)

Q-5 Find five rational number between  $\frac{7}{5}$  and  $\frac{9}{8}$

Q-6 Add  $-\frac{7}{9} + \frac{2}{7} - \frac{3}{5}$

Q-7 subtract  $\left(-\frac{7}{9} + \frac{1}{8}\right)$  from  $\left(-\frac{1}{2} + \frac{1}{4}\right)$

Q-9 Divide  $\frac{7}{4} \div \frac{8}{2}$

Q-10 Divide  $1\frac{1}{2} \div 1\frac{1}{7}$

Quadrilaterals

Q-11 what is quadrilaterals? How many types of quadrilateral? Explain their properties?

Q-12 what is the difference between concave and convex quadrilaterals?

Q-13 what is polygon? Explain types of polygon (3 sides to 10 sides polygon). With diagram.

Q-14 Explain:-

- (i) Linear pair
- (ii) Co-interior angles
- (iii) Parallel lines

- (iv) Perpendicular lines
  - (v) Ray, line , line segment
  - (vi) Adjacent angle
  - (vii) Vertex
  - (viii) Angle
  - (ix) Intersecting line
  - (x) Alternative angle
  - (xi) Vertically opposite angle
  - (xii) Corresponding angle
- Basic algebra

Q-15  $-\frac{1}{2} + 4 - \frac{5}{3}$

Q-16  $-2 + \frac{7}{2} - \frac{1}{6}$

Q-17  $-\frac{3}{2} \times \frac{3}{2}$

Q-18  $-1.7 + 2.5 + 20$

Q-19  $-1.7 \times 100$

Q-20  $-\frac{2.7}{100}$

Q-21  $-\frac{7}{2} \times \frac{2}{7} + \frac{2}{7}$

Q-22  $2 \times \frac{1}{7} + \frac{6}{3} + \frac{1}{2}$

Q-23  $\frac{1}{7} \times \frac{15}{7} \times 0$

Q-24  $-7 + 0 + \frac{6}{5} + \frac{4}{25}$

Q-25  $-6+17$

Q-26  $-6-6$

Q-27  $-6\times 6$

Q-28  $-2 \times 10^2$

Q-29  $\frac{-2+1}{7} - \frac{1}{2}$

Q-30  $0.78 \times 0.000112$