ARMY PUBLIC SCHOOL KOTA

WORK-SHEET (Chapters 1,2 and 3)

CLASS-VIII MATHEMATICS

General Instructions:

1. **All questions are compulsory.**
2. **The Work sheet consists of 15 questions divided into four sections A, B, C and D. Section-A comprises of 3 questions of 1-mark each; Section-B comprises of 3 questions of 2-marks each; Section-C comprises of 5 questions of 3-marks each and Section-D comprises of 4 questions of 4-marks each.**

SECTION-A

Question numbers 1 to 3 carry one mark each.

Q.1. **Evaluate:** $\frac{-7}{8} \div 15\frac{3}{4}$ **(1)**

Q.2. **Solve:** $\frac{3}{5}x + 2 = \frac{2}{3}x$ **(1)**

Q.3. **If the sum of interior angles of a polygon is 3780^0, find the number of sides.** **(1)**

SECTION-B

Question numbers 4 to 6 carry two marks each.

Q.4. **What number should be added to $\frac{-4}{11}$ to get $\frac{-3}{8}$?** **(2)**

Q.5. **Solve the equation and check your answer:** $\frac{4}{3}x + 7 = \frac{3x+7}{5}$. **(2)**

Q.6. **Find the number of sides of a regular polygon if each of its interior angle is 168^0.** **(2)**

SECTION-C

Question numbers 7 to 11 carry three marks each.

Q.7. **If the product of two rational number is $\frac{25}{42}$ and one of them is $-2\frac{6}{7}$, find the other number.** **(3)**

Q.8. **Divide the sum of $\frac{4}{13}$ and $\frac{-3}{2}$ by their product.** **(3)**

Q.9. **Solve the equation and check the result:** $\frac{2x-3}{5x-4} = \frac{2x+1}{5x+20}$. **(3)**

Q.10. **Sum of two numbers is 95. If one exceed the other by 15, find the number.** **(3)**

Q.11. **The two angles of a quadrilateral are 77^0 and 57^0, and out of the remaining two angles, one angle is 10^0 smaller than the other, find these angles.** **(3)**

SECTION-C

Q.12. **Using the appropriate properties of operation of rational numbers, than evaluate this:** **(4)**
$\frac{1}{13} \times \frac{4}{5} - \frac{7}{5} - \frac{4}{5} \times \frac{5}{13}$

Q.13. **A grandfather is ten times older than his granddaughter. He is also 54 years older than her. Find their present ages.** **(4)**

Q.14. **The digits of two digit number differ by 7. If the digit are interchanged and the resulting number is added to the original number we get 121. Find the original number.** **(4)**

Q.15. **ABCD is a rectangle and diagonals intersect at O. If $\angle AOB = 108^0$, find (i) ∠AOB (ii) ∠ADO (iii) ∠OCB** **(4)**