

**ARMY PUBLIC SCHOOL AHMEDABAD CANTT**

**Worksheet-1**

Class- 8<sup>th</sup>

Subject- Maths

Date –

(1) Name the property of multiplication of rational numbers illustrated by the following statements.

A.  $\frac{-5}{16} \times \frac{8}{15} = \frac{8}{15} \times \frac{-5}{16}$

B.  $\frac{7}{4} \times \left( \frac{-8}{3} + \frac{-13}{12} \right) = \frac{7}{4} \times \frac{-8}{3} + \frac{7}{4} \times \frac{-13}{12}$

C.  $\frac{-5}{9} \times \left( \frac{4}{15} \times \frac{-9}{8} \right) = \left( \frac{-5}{9} \times \frac{4}{15} \right) \times \frac{-9}{8}$

D.  $\frac{-13}{17} \times 1 = \frac{-13}{17} = 1 \times \frac{-13}{17}$

E.  $\frac{2}{13} + 0 = \frac{2}{13} = 0 + \frac{2}{13}$

F.  $\frac{-11}{16} \times \frac{16}{-11} = 1$

(2) Represent  $\frac{8}{5}$  and  $-\frac{8}{5}$  on same number line.

(3) Use the distributive property simplify.

A.  $\frac{-5}{4} \times \left( \frac{8}{5} + \frac{16}{5} \right)$

B.  $\frac{2}{7} \times \left( \frac{7}{16} - \frac{21}{4} \right)$

(4) Write the reciprocal of the following.

A. -11      B.  $\frac{2}{7}$       C.  $\frac{2}{5} \times \frac{4}{9}$

(5) Write the additive inverse of : A.  $\frac{-2}{17}$       B.  $\frac{-11}{-25}$

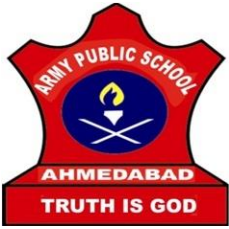
(6) Find ten rational between  $\frac{2}{5}$  and  $\frac{5}{2}$ .

(7) Simplify :  $\frac{-2}{5} - \left( \frac{-3}{10} \right) - \left( \frac{-4}{15} \right)$

(8) Which number should be subtracted from  $\frac{11}{12}$  so that we obtain  $\frac{-3}{4}$  ?

(9) Which number should be added to  $\frac{15}{16}$  so that we get rational number  $\frac{77}{48}$  ?

(10) Find ten rational numbers between  $\frac{-5}{6}$  and  $\frac{5}{8}$ .



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**Worksheet-2**

Class- 8<sup>th</sup>

Subject- Maths

Date –

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

(2) Solve :  $\frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 13$

(3) Solve :  $\frac{2x-1}{3} - \frac{6x-2}{5} = \frac{1}{3}$

(4) Solve :  $8x+4 = 3(x-1)+7$

(5) Solve :  $\frac{x+6}{4} + \frac{x-3}{5} = \frac{5x-4}{8}$

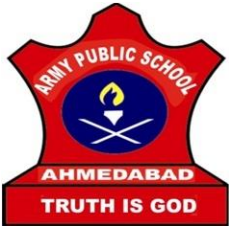
(6) Ratio of three angles of a triangle is 1 : 2 : 3. Find the angles.

(7) Two numbers are in the ratio 4 : 7. If the sum of numbers is 143, find the numbers.

(8) Two years ago, Dilip was three times as old as his son and two years hence, twice his age will be equal to five times that of his son. Find their present ages.

(9) Three prizes are to be distributed in a quiz contest. The value of the second prize is five sixths the value of the first prize and the value of third prize is four fifths that of the second prize. If the total value of the three prizes is Rs150, find the value of each prize.

(10) Twenty four is divided into two parts such that 7times the first part added to 5times the second part makes 146. Find each part.



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**Worksheet-2**

Class- 8<sup>th</sup>

Subject- Maths

Date –

- (1) The angles of a quadrilateral are 110, 72, 55 and  $x$ . Find the value of  $x$ .
- (2) ABCD is a parallelogram in which  $\angle A = 70^\circ$ , find  $\angle B$ ,  $\angle C$  and  $\angle D$ .
- (3) Two opposite angles of a parallelogram are  $(3x - 2)^\circ$  and  $(50 - x)^\circ$ . Find the measure of each angle of the parallelogram.
- (4) The sides of a rectangle are in the ratio 4 : 5. Find its sides if the perimeter is 90 cm.
- (5) Find the perimeter of rhombus whose diagonals are 12cm and 16cm.
- (6) Find the measure of each exterior angles of I ) Regular Octagon            II) Regular Decagon.
- (7) The external angle of regular polygon is  $20^\circ$ . How many sides does it has ? What is the measure of each exterior angle ? What is the total measure of its angles ?
- (8) One of the diagonals of a rhombus is equal to one of its sides. Find the angles of the rhombus.
- (9) The five angles of pentagon are in the ratio 5 : 6 : 7 : 8 : 10. Find all the angles.
- (10) GOAL is a quadrilateral in which  $GO \perp AL$ . If  $\angle G = \angle O = 40^\circ$ . What are the measure of  $\angle A$  and  $\angle L$ .