

KV NO. 2 , AFS KALAIKUNDA
SUMMER BREAK HOLIDAY HOMEWORK (2021)

MATHEMATICS

CLASS - 8

Q1) Represent these numbers on the number line:

i. $-3/4$

ii. $17/9$

Q2) Find five rational numbers between $3/4$ and $5/6$.

Q3) Find the multiplicative inverse and additive inverse of the following numbers:

a) $-1/2$

b) $6/7$

c) 4

Q4) Name the property under multiplication used in each of the following:

a) $a \times 1/a = 1 = 1/a \times a$.

b) $a \times b = b \times a$

c) $a \times (b + c) = a \times b + a \times c$.

d) $a + (b + c) = (a + b) + c$.

Q5) Game : Who will be the Lakhpati ???

Rohit and Saurabh are playing a game. The one who solves the following equations will be a winner. Find out if you were at their place would you have been be a winner. Till what money did you reach successfully?

Rules of the game

(a) You can only move to the next problem if the previous answer is correct.

(b) Winning amount slab

QUESTION NO	AMOUNT
1	₹ 1,000
2	₹ 2,000
3	₹ 3,000
4	₹ 4,000
5	₹ 10,000
6	₹ 12,000
7	₹ 30,000
8	₹ 60,000
9	₹ 70,0000
10	₹ 1,00,000

c. Problems

$$(i) \frac{x+1}{2x+7} = \frac{3}{8}$$

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

$$(iii) \frac{6x+1}{3} + 1 = \frac{x-3}{6}$$

$$(iv) 3m = 7m - \frac{8}{7}$$

$$(v) -x = \frac{-6}{5}(x-10)$$

$$(vi) 5x + \frac{7}{2} = \frac{3}{2}x - 14$$

$$(vii) \frac{x}{3} + 1 = \frac{8}{15}$$

$$(viii) \frac{x}{2} + \frac{3x}{4} - \frac{5x}{6} = 2$$

$$(ix) \frac{50}{x} + 4 = 14$$

$$(x) x + \frac{2}{3}x + \frac{x}{7} = 97 - \frac{x}{2}$$

Q6) Make a chart on types of quadrilaterals (with proper figure)

Or

Make a chart on properties of parallelogram (with proper figures).

Q7) Determine the missing value in puzzle.

$$\begin{array}{l} \diamond \star = 8 \\ \diamond \diamond \star = 10 \\ \diamond \star \star \star \star = ? \end{array}$$