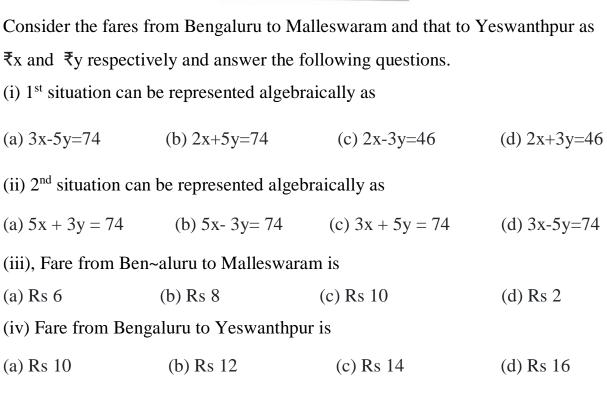# GRADE 10 - CASE STUDY QUESTIONS FOR CLASS WORK

CHAPTER : 3 – PAIR OF LINEAR EQUATIONS IN TWO VARIABLES.

From Bengaluru bus stand, if Riddhima buys 2 tickets to Malleswaram and 3 tickets to Yeswanthpur, then total cost is ₹ 46; but if she buys 3 tickets to Malleswaram and 5 tickets to Yeswanthpur, then total cost is ₹74.

Consider the fares from Bengaluru to Malleswaram and that to Yeswanthpur as ₹x and ₹y respectively and answer the following questions.

(i) 1st situation can be represented algebraically as

(a) 3x-5y=74   (b) 2x+5y=74   (c) 2x-3y=46   (d) 2x+3y=46

(ii) 2nd situation can be represented algebraically as

(a) 5x + 3y = 74   (b) 5x- 3y= 74   (c) 3x + 5y = 74   (d) 3x-5y=74

(iii), Fare from Ben~aluru to Malleswaram is

(a) Rs 6   (b) Rs 8   (c) Rs 10   (d) Rs 2

(iv) Fare from Bengaluru to Yeswanthpur is

(a) Rs 10   (b) Rs 12   (c) Rs 14   (d) Rs 16

(v) The system of linear equations represented by both situations has

(a) infinitely many solutions   (b) no solution

(c) unique solution   (d) none of these

ANSWERS   (i) (d)   (ii) (c)   (iii) (b)   (iv) (a)   (v) (c)