SIMPLE EQUATIONS

Subtopic: More equations, from solution to equation, application of simple equation to practical situations

Section 1

1. Mark T for True and F for False

1a. Changing side is called disposing.

1b. If 3x+4=19 then x=6.

2. Choose the correct answer.

2a. Multiply a number x by 6 subtract 5 from the product to get 7. What is the number?

a) 2

b) 3

c) 4

d)5

2b. x+3=8 is the same as

a) x+3-3=8

b) x+3=8-3

c) x+3-3=8-3

d)x+3=8-5

3. Fill in the blanks

3a. When we _____ a number we change its sign.

3b. The value of the variable for which the equation is satisfied is called _____ of the equation.

SIMPLE EQUATIONS

Subtopic: More equations, from solution to equation, application of simple equation to practical situations

4. Match the following.

Find x	**x=**	Answer here	
a) 5/2x=-5	1) x=1/2	a)	
b) 7x+19/2=13	2) x=2	b)	
c) 6x-10 = 2	3)x=5	c)	
d) -4(3+x) =0	4) x=-1/2	d)	
e) 4(5-x) =0	5) x=-3	e)	

Section 2

5. Construct 3 equations starting with x=2.

6. Solve by transporting (i)12p-5=25 (ii) 4(m+3) = 18 (iii) -2(x+3) = 8.

7. Give steps you will use to separate the variable and solve the equation 5m+7=17.

8. Solve (i) 8y=36 (ii) 3s=-9 (iii) 3p/10 = 6 (iv) p/4=5 (v) a/5=17/15.

Section 3

9. Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score?

10. People of village, planted trees in a garden. Some of the trees were fruit trees. The number of non-fruit trees were two more than three times the number of fruit trees. What was the number of fruit trees planted if the number of nonfruit trees planted was 77?