SIMPLE EQUATIONS

Subtopic: Setting up of an equation, Review of what we know, What is equations

Section 1

1. Mark T for True and F for False

1a. An equation is a condition on a comment.

1b. Equation has equality sign.

2. Choose the correct answer.

2a. 4x+5 = 65 is the same as…

a) 65 = 4x + 5

b) 5x + 4 = 65

c) 4x + 5 = 60

d) 6x + 4 = 50

2b. The sum of three times x and 11 is 32. The equation for this is…

a) 4x + 1 = 32

b) 3x + 12 = 3

c) 3x + 11 = 32

d) 4x + 3 = 12

3. Fill in the blanks

3a. The equation for one fourth of m is 3 more than 7, is _____.

3b. The equation for one third of a number plus 5 is 8, is _____.

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4. Match the following.

Column 1	Column 2	Answer here	
a) x – 5 = 9	1) 7 added to 3 times x is equal to 1	a)	
b) 5x = 20	2) Take away 11 from 6 times x to get 7	b)	
c) 3x + 7 = 1	3)Taking away 5 from x gives 9	c)	
d) x/5 -2 = 6	4) 5 times a number x is 20.	d)	
e) 6x – 11 = 7	5) Subtract 2 from one fifth of a number x to get 6.	e)	

Section 2

5. Complete the table.

SN	Equation	Value	Is Equation satisfied ? Yes or No
1	x+ 3= 0	x=3	
2	m/3 = 2	m = -6	
3	x-7 = 1	x = 7	
4	x – 7 = 1	x = 8	
5	5x = 25	x = -25	

6. Verify if p = -4 is a solution of 4p-3 = 13.

7. Set up an equation for below. In an isosceles triangle, the vertex angle is twice of either of the base angle. (Let the base angle be b in degrees. Remember that the sum of angles of triangle is 180 degrees)

8. Solve the equation 3m-14 = 4 by trial-and-error method.

Section 3

9.Ankit's father 's age is 6 years more than three times Ankit's age. Ankit's father is 44 years old. Set up an equation to find Ankit's age.

10. Khushi's father is 49 years old. He is 4 years older than three times Khushi's age. (Take Khushi's age to be y years) Set up an equation to find Khushi's age.