LABASA SANGAM (SKM) COLLEGE

NAME: _____

HOME STUDY PACKAGE

YEAR: _____

YEAR 11 APPLIED MATHEMATICS

WORKSHEET 7

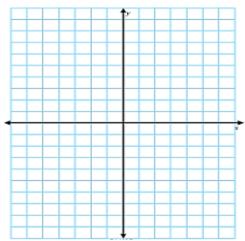
Week 7 Activity

STRAND 4: GRAPHS

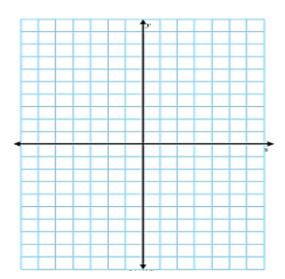
SUB STRAND: EXPONENTIAL FUNCTION

1. Sketch the graph of the following:

a.
$$y = 3^X$$



b.
$$y = (\frac{1}{4})^X$$



NAME:
YEAR 11:

YEAR 11 MATHEMATICS LIFE SKILLS

WORKSHEET (WEEK 7 – 9)

STRAND 3: Linear Functions in Everyday Context

Sub-strand 3.2: Simultaneous Equations

1	Datamaina	rrale a the are a	ا مسما	10:00	14:	4. 41	
Ι.	Determine	whether $x = 1$	i and y =	10 18 2	a solution	to the ec	juations:

$$x + 3y = 30$$

$$2x - y = -9$$

2. Determine whether x = 1 and y = 10 is a solution to the equations:

$$x+3y=30$$

$$2x - y = -9$$

3.	An ATM machine issues \$10 and \$20 notes only. On a particular day 66 notes had been issued, for a total value of \$970. Two simultaneous equations that can be obtained from this information are:
	x+y=66
	10x + 20y = 970
	(a) What do x and y represent in these equations?
	(b) Solve the equations to work out how many of each kind of note were issued.
4.	1000 tickets were sold. Adult tickets cost \$8.50, children's cost \$4.50, and a total of \$5700 was collected. How many tickets of each kind were sold?

5.	Samantha has 30 coins, consisting of 20c and 50c, which total \$13.50. How many of each does she have?
6.	Simita has 25 coins, consisting of 10c and 5c, which total \$2.25. How many of each does she have?
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7.	7 cups of coffee and 4 pieces of toast cost \$20. 5 cups of coffee and 3 pieces of toast cost \$14.50. Find the cost of each item
0	2 hooks and 2 nans aget \$9
0.	3 books and 2 pens cost \$8.
	5 books and 3 pens cost \$13.
	Find the total cost of one book and one pen.
i	

 9. If the cost of 3 chocolates and 2 cookies is \$22 and that of 2 chocolates and 3 cookies is \$18, what is the cost of cookies? 10. 2 tables and 3 chairs together cost \$1900 whereas 3 tables and 2 chairs together cost \$2600. Find the cost of a table and a chair. 		
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11. The sum weights of Tama and Vara is 60 kg and the difference is 20 kg. Find the weights of Tama and Vara.
Tama and Vara.
12. In a farm, there are x chickens and y pigs. If the total number of chickens and pigs in the
farm is 30 and the total number of legs is 80,
(a) Form true simultaneous equations in v and v
(a) Form two simultaneous equations in x and y.
(b) Solve the equations to find the number of chickens and pigs in the farm.

13. John bought some pens and pencils at a book store. If 5 pens and 3 pencils cost \$13.00 while 5 pencils and 3 pens cost \$11 instead, find the cost of a pen.
14. Tickets at a soccer league game costs \$2 for children and \$5 for adults. If a total of 500
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tickets were sold and the total money collected \$1600 for a game, how many adult tickets
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15. Find the cost of e	each apple and each pear if
•	4 apples and 3 pears cost \$4.80
•	3 apples and 5 pears cost \$5.25
	supples and s pears cost 43.23