x	0	5	10	15	20	25	30	35	40	45	65	55	60
4.													
42													
0					-								

c) How many weeks will it take for their savings to be equal?

3. In January, Paul weighed 90 kg. He went on a diet for one year and lost an average of 1.5 kg per month. During the same period, his son, who weighed 72 g, gained weight at an average of one kg per month. Consider the relation between the time (in months) and each person's weight.

a) Give a system of linear relations for this situation.

b) Make a table of values.

×	0	1	2	3	4	5	6	7	8	9	10	11.
y ,												
42												

- c) When will Paul reach his desired weight of 75 kg?
- d) Solve and interpret the system.
- 4. To rent a jet ski, Marilyn must pay an initial fee of \$20 plus \$25 per hour. Her friend Luke pays an initial fee of \$10 plus \$30 per hour for his rental. Consider the relation between rental time and the rate.
 - a) Translate the situation into a system of linear relations.
 - b) Make a table of values.
 - c) After how many hours will Marilyn and Luke have paid the same amount?

x	0	ı	2	3	4	5
y,						
42						
-						

- 5. Sean earns \$6.70/h plus \$100 in tips (on average) per week. Julie earns \$9.25/h but does not get tips. Consider the relation between the number of hours worked and Sean and Julie's weekly salaries.
 - a) Translate the situation into a system of linear relations.

- b) Make a table of values for earnings from 32 to 40 weeks of work.
- c) Which person's salary is higher for a 40-hour workweek?

x	32	34	36	38	40