#1

Astronaut Abigail needs to do an EVA in her spacesuit and wants to calculate how much oxygen she will lose every minute. If Abigail consumes 4 units of oxygen every minute, write an equation to relate the amount of oxygen lost w and the amount of minutes x that have passed. e.g. x=1y

Show your work

#2

Farmer Emma has a supply of hay to feed the cows everyday. Write a formula to relate the hay lost x and the number of days y if the cows eat 7 bails of hay per day. e.g. x=1y

Show your work

#3

Choose the best answer

Lily sells strawberries out of the back of her van. In order to predict the required stock write a formula to relate the number of strawberries lost b to the hour c if she sells 16 per hour. e.g. x=1y

- ○ c=16b
- ○ c=−b16
- ○ b=c16
- ○ b=−16c

Show your work

#4

Farmer Abigail's total chicken flock i is decreasing. She loses 8 per week. Write a formula to represent the relationship between the total number of chickens and the number of weeks j. e.g. x=1y

Show your work

#5

Darren sells strawberries out of the back of his van. In order to predict the required stock write a formula to relate the number of strawberries lost n to the hour o if he sells 4 per hour. e.g. x=1y

Show your work

#6

Choose the best answer

Julia is running a business and wants to predict the money lost to vehicle repairs. Repair costs are $11 per month. Find the formula to relate the lost vehicle repair costs u and the month v. e.g. x=1y

- ○ v=−u11
- ○ u=v11
- ○ u=−11v
- ○ v=11u

Show your work

#7

Choose the best answer

The town water tower is leaking 19 water units per day. Relate the amount of water lost f and the day g. e.g. x=1y

- ○ g=19f
- ○ f=−19g
- ○ g=−f19
- ○ f=g19

Show your work

#8

Choose the best answer

Mason is running a business and wants to predict the money lost to vehicle repairs. Repair costs are $3 per month. Find the formula to relate the lost vehicle repair costs k and the month l. e.g. x=1y

- ○ l=3k
- ○ k=−3l
- ○ k=l3
- ○ l=−k3

Show your work

#9

The city produces 7 jobs every year w. Write an equation to show the relationship between how many jobs are produced each year, and the total number of jobs v, e.g. x=1y.

Show your work

#10

Choose the best answer

You are taking your grain to market tomorrow and have d bushels of wheat, and each bushel sells for $6. Write an equation that shows the relationship between the total worth c, and the number of bushels, e.g. x=1y.

- ○ c=−d6
- ○ d=6c
- ○ d=−c6
- ○ c=6d

Show your work

#11

The city produces 11 jobs every year l. Write an equation to show the relationship between how many jobs are produced each year, and the total number of jobs k, e.g. x=1y.

Show your work

#12

Choose the best answer

You are taking your grain to market tomorrow and have k bushels of wheat, and each bushel sells for $4. Write an equation that shows the relationship between the total worth j, and the number of bushels, e.g. x=1y.

- ○ j=4k
- ○ k=4j
- ○ j=−k4
- ○ k=−j4

Show your work

Question	Answer
#1	w=-4x
#2	x=-7y
#3	choice 4
#4	i=-8j
#5	n=-4o
#6	choice 3
#7	choice 2
#8	choice 2
#9	v=7w
#10	choice 4
#11	k=11l
#12	choice 1