

#1

The International Space Station (ISS) relies on solar panels and batteries for its power. When the ISS is in the shadow of the Earth, the battery drains at a rate of 24 power units per hour. Find the formula to relate the number of hours p to the amount of power loss o . e.g. $y=1x$

Show your work

#2

Caleb 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 q to the hour r if he sells 5 per hour. e.g. $y=1x$

Show your work

#3

Benjamin is running a business and wants to predict the money lost to vehicle repairs. Repair costs are \$34 per month. Find the formula to relate the lost vehicle repair costs r and the month s . e.g. $y=1x$

Show your work

#4

You want to sell your horse figurine collection of m figurines for \$4 each.

Write an equation to show the relationship between the total money made l and the price of figurines, e.g. $y=1x$.

Show your work

#5

The city produces 36 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. $y=1x$.

Show your work

#6

Farmer Connor needs to figure out how many total cattle k he will have next year. He counts his cattle l and knows each will produce 25 calves each year. Write an equation that shows this relationship and can be used to calculate how many cattle Connor will have next year, e.g. $y=1x$.

Show your work

#7

Choose the best answer

The International Space Station (ISS) relies on solar panels and batteries for its power. When the ISS is in the shadow of the Earth, the battery drains at a rate of 34 power units per hour. Find the formula to relate the number of hours k to the amount of power loss j . e.g. $y=1x$

- $j=-34k$ $k=-j34$
 $j=-k34$ $k=34j$

Show your work

#8

Choose the best answer

Farmer Daniel's total chicken flock d is decreasing. He loses 13 per week. Write a formula to represent the relationship between the total number of chickens and the number of weeks e . e.g. $y=1x$

- $d=-e13$ $e=13d$
 $e=-d13$ $d=-13e$

Show your work

#9

Choose the best answer

Astronaut Isabella needs to do an EVA in her spacesuit and wants to calculate how much oxygen she will lose every minute. If Isabella consumes 11 units of oxygen every minute, write an equation to relate the amount of oxygen lost j and the amount of minutes k that have passed. e.g. $y=1x$

- $j=-11k$ $k=11j$
 $k=j11$ $j=-k11$

Show your work

#10

You want to sell your horse figurine collection of m figurines for \$4 each.

Write an equation to show the relationship between the total money made l and the price of figurines, e.g. $y=1x$.

Show your work

#11

Farmer Matthew's total chicken flock p is decreasing. He loses 36 per week.

Write a formula to represent the relationship between the total number of chickens and the number of weeks q . e.g. $y=1x$

Show your work

#12

Choose the best answer

A plumber makes \$36 an hour, and wants to calculate how much money she will make in q hours. Write an equation to show the relationship between the money made per hour and the total money made p , e.g. $y=1x$.

$p=36q$

$q=p36$

$q=-36p$

$p=-q36$

Show your work

Question	Answer
#1	$o = -24p$
#2	$q = -5r$
#3	$r = -34s$
#4	$l = 4m$
#5	$v = 36w$
#6	$k = 25l$
#7	choice 1
#8	choice 4
#9	choice 1
#10	$l = 4m$
#11	$p = -36q$
#12	choice 1