

#1

Farmer Mason needs to figure out how many total cattle f he will have next year. He counts his cattle g and knows each will produce 11 calves each year. Write an equation that shows this relationship and can be used to calculate how many cattle Mason will have next year, e.g. $x=1y$.

Show your work

#2

Choose the best answer

Farmer Elizabeth's total chicken flock d is decreasing. She loses 6 per week. Write a formula to represent the relationship between the total number of chickens and the number of weeks e . e.g. $x=1y$

☐ $d=e6$

☐ $d=-6e$

☐ $e=-d6$

☐ $e=6d$

Show your work

#3

The city produces 6 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

#4

Dahlia wants to make a unicorn hair wig, but a unicorn only sheds 5 hairs a day. Write an equation to show the relationship between days o and the total unicorn hairs shed n , e.g. $x=1y$.

Show your work

#5

Jackson wants to make a unicorn hair wig, but a unicorn only sheds 18 hairs a day. Write an equation to show the relationship between days f and the total unicorn hairs shed e , e.g. $x=1y$.

Show your work

#6

Choose the best answer

Ella 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 n and the month o . e.g. $x=1y$

☐ $n=o3$

☐ $o=3n$

☐ $o=-n3$

☐ $n=-3o$

Show your work

#7

Andrew makes \$5 an hour.
Write an equation that shows
the relationship between the
money made f and the hours
worked g , e.g. $x=1y$.

Show your work

#8

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

#9

Choose the best answer

Gabriel wants to make a unicorn hair wig, but a
unicorn only sheds 8 hairs a day. Write an equation to
show the relationship between days d and the total
unicorn hairs shed c , e.g. $x=1y$.

☐ $c=8d$

☐ $d=8c$

☐ $d=-c8$

☐ $c=-d8$

Show your work

#10

Choose the best answer

You want to sell your horse figurine collection of s figurines for \$12 each. Write an equation to show the relationship between the total money made r and the price of figurines, e.g. $x=1y$.

☐ $r=12s$

☐ $s=-r12$

☐ $r=-s12$

☐ $s=12r$

Show your work

#11

Choose the best answer

You are taking your grain to market tomorrow and have v bushels of wheat, and each bushel sells for \$16. Write an equation that shows the relationship between the total worth u , and the number of bushels, e.g. $x=1y$.

☐ $u=-v16$

☐ $v=16u$

☐ $u=16v$

☐ $v=-u16$

Show your work

#12

Choose the best answer

Gavintown is going through an economic downturn and jobs are being lost at a rate of 4 per month. As the mayor of Gavintown, write a formula to relate the number of months b to the number of jobs lost a . e.g. $x=1y$

☐ $b=-a4$

☐ $b=4a$

☐ $a=b4$

☐ $a=-4b$

Show your work

Question	Answer
#1	$f=11g$
#2	choice 2
#3	$k=6l$
#4	$n=5o$
#5	$e=18f$
#6	choice 4
#7	$f=5g$
#8	$w=-4x$
#9	choice 1
#10	choice 1
#11	choice 3
#12	choice 4