

#1

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

#2

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 17 power units per hour. Find the formula to relate the number of hours f to the amount of power loss e . e.g. $x=1y$

Show your work

#3

Since starting a new recycling plan, Julia's office recycles 15 kilograms of paper each week. Write an equation that shows the relationship between the weeks f and the paper recycled e , e.g. $x=1y$.

Show your work

#4

Samanthatown is going through an economic downturn and jobs are being lost at a rate of 8 per month. As the mayor of Samanthatown, write a formula to relate the number of months t to the number of jobs lost s . e.g. $x=1y$

Show your work

#5

Out at Camp Caden the squirrels like to sneak and steal sunflower seeds out of the birdfeeder at a rate 13 per hour. Write a formula to find the number seeds lost e related to the hour f . e.g. $x=1y$

Show your work

#6

Jacob wants a formula to figure out how far he goes on his runs. He will need the total distance d , and how many blocks he ran e . If a block is 15 meters, write the equation he needs, e.g. $x=1y$.

Show your work

#7

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 17 power units per hour. Find the formula to relate the number of hours f to the amount of power loss e . e.g. $x=1y$

Show your work

#8

Out at Camp Caden the squirrels like to sneak and steal sunflower seeds out of the birdfeeder at a rate 13 per hour. Write a formula to find the number seeds lost e related to the hour f . e.g. $x=1y$

Show your work

#9

Choose the best answer

Daniel wants to make a unicorn hair wig, but a unicorn only sheds 2 hairs a day. Write an equation to show the relationship between days u and the total unicorn hairs shed t , e.g. $x=1y$.

$t=2u$

$u=2t$

$u=-t^2$

$t=-u^2$

Show your work

#10

Choose the best answer

Avery 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 d to the hour e if she sells 16 per hour. e.g. $x=1y$

- $d=e16$ $e=-d16$
 $d=-16e$ $e=16d$

Show your work

#11

Choose the best answer

Farmer Connor has a supply of hay to feed the cows everyday. Write a formula to relate the hay lost b and the number of days c if the cows eat 5 bails of hay per day. e.g. $x=1y$

- $c=-b5$ $c=5b$
 $b=-5c$ $b=c5$

Show your work

#12

The city produces 18 jobs every year v . Write an equation to show the relationship between how many jobs are produced each year, and the total number of jobs u , e.g. $x=1y$.

Show your work

Question	Answer
#1	choice 4
#2	$e = -17f$
#3	$e = 15f$
#4	$s = -8t$
#5	$e = -13f$
#6	$d = 15e$
#7	$e = -17f$
#8	$e = -13f$
#9	choice 1
#10	choice 3
#11	choice 3
#12	$u = 18v$