

#1

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

#2

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

- $x=y7$ $y=7x$
 $x=-7y$ $y=-x7$

Show your work

#3

Choose the best answer

Michael is running a business and wants to predict the money lost to vehicle repairs. Repair costs are \$17 per month. Find the formula to relate the lost vehicle repair costs j and the month k . e.g. $x=1y$

- $j=-17k$ $k=-j17$
 $k=17j$ $j=k17$

Show your work

#4

William 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 6 per hour.
e.g. $x=1y$

Show your work

#5

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

#6

Pioneers are buying mules to trek across the country. Each of the 10 wagons require o mules to pull them. Write the equation to express the relationship between the total mules n they need to pull and all the wagons, e.g. $x=1y$.

Show your work

#7

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

#8

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

#9

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

#10

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

#11

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

#12

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

Show your work

Question	Answer
#1	choice 4
#2	choice 3
#3	choice 1
#4	$q = -6r$
#5	choice 3
#6	$n = 10o$
#7	$u = 18v$
#8	$d = 15e$
#9	choice 3
#10	$v = 7w$
#11	$s = -8t$
#12	$d = 6e$