

#1

Choose the best answer

Brayden writes equations to figure out how long it will take him to do things on a day-to-day basis. $t=7i+4$ is the equation he uses for grocery shopping. Variable i is how many items he needs to buy, and t is the number of minutes it will take to do the shopping. If Brayden has 3 items to get from the store, how long does the equation estimate it will take?

☐ 17☐ 19☐ 24☐ 25

Show your work

#2

Choose the best answer

This equation shows how the number of cookies Josie can bake is related to the amount of flour she has: $c=8f+3$. The variable f represents the number of scoops of flour Josie has, and the variable c represents the number of cookies she can bake. With 3 scoops of flour, how many cookies can Matilda bake?

☐ 20☐ 27☐ 31☐ 25

Show your work

#3

Choose the best answer

This equation shows how the time required to ring up a customer is related to the number of items being purchased: $t=3p$. The variable p represents the number of items being purchased, and the variable t represents the number of minutes required to ring up the customer. How long does it take to ring up a customer with 3 items?

☐ 12☐ 11☐ 9☐ 7

Show your work

#4

Choose the best answer

$a = 8e + 2$ is an equation that aliens use to calculate how old humans are in their time (like dog years). The variable e is the humans age in earth years and the variable a is their age in alien years. If someone is 9 years old, how old are they in alien years?

☐ 86☐ 67☐ 92☐ 74

Show your work

#5

Choose the best answer

This equation shows how the time required to ring up a customer is related to the number of items being purchased: $t = 5p$. The variable p represents the number of items being purchased, and the variable t represents the number of minutes required to ring up the customer. How long does it take to ring up a customer with 6 items?

☐ 24☐ 34☐ 33☐ 30

Show your work

#6

Choose the best answer

Gabriel likes to write fun equations to help him calculate daily tasks. His most recent one is $t = 5d$, which calculates how long in minutes t , it will take to do the dishes if there are d dishes. Tonight there are 4 dishes, how long will it take to do them?

☐ 20☐ 21☐ 24☐ 17

Show your work

#7

Choose the best answer

The following equation shows how much money per hour Ethan makes: $m=6h$. The variable h represents the number of hours worked, and the variable m represents the total money earned. How much money does Ethan make if he works 7 hours?

☐ 50☐ 52☐ 42☐ 29

Show your work

#8

Choose the best answer

The equation $k=3d+8$ is what Principal Andrew uses to estimate how many kids will be calling in sick that day to school. The variable d is the day of the year, and k is the number of kids calling in sick. If it is day 5 of the year, how many kids would Principal Andrew expect to call in sick?

☐ 28☐ 16☐ 23☐ 21

Show your work

#9

Choose the best answer

$v=3t$ is an equation that shows how fast (meters per second) something is going v based on how far it travels over a certain amount of time t . Scientists are using this equation in an experiment where the distance is always the same as they are testing how long it takes different remote control cars to go the same distance. How fast is a car going if it takes 9 seconds?

☐ 36☐ 26☐ 27☐ 24

Show your work

#10

Choose the best answer

The equation $p=7f+7$ is used by Kaylee to calculate how many presents she will receive over the year. The variable f is how many good things she has done this year, and variable p is how many presents she'll receive. If Kaylee is 3 years old, how many presents does she think she'll get this year?

☐ 28☐ 35☐ 36☐ 33

Show your work

#11

Choose the best answer

$a=8e+5$ is an equation that aliens use to calculate how old humans are in their time (like dog years). The variable e is the humans age in earth years and the variable a is their age in alien years. If someone is 8 years old, how old are they in alien years?

☐ 57☐ 62☐ 51☐ 69

Show your work

#12

Choose the best answer

This equation shows how the number of cookies Josie can bake is related to the amount of flour she has: $c=6f+7$. The variable f represents the number of scoops of flour Josie has, and the variable c represents the number of cookies she can bake. With 5 scoops of flour, how many cookies can Jack bake?

☐ 44☐ 49☐ 27☐ 37

Show your work

Question	Answer
#1	25
#2	27
#3	9
#4	74
#5	30
#6	20
#7	42
#8	23
#9	27
#10	28
#11	69
#12	37