#1

Choose the best answer

This equation shows the relationship of number of minutes t to drive somewhere based on the distance in kilometers d: $t=7d$. If Lily wants to go to the grocery store that is 5 kilometers away, how long will it take?

- 33
- 35
- 43
- 27

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: $t=9p$. 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 9 items?

- 105
- 77
- 81
- 94

Show your work

#4

Choose the best answer

The equation $y=5a+6$ is the equation Farmer Christopher uses to calculate how many yams his field will yield at the end of the season. The variable a is the area of the field (ex. 20 sq ft), and the variable y is the number of yams. If he planted 8 sq ft of yams in his field this year, how many yams will he have?

- ○ 32
- ○ 40
- ○ 46
- ○ 41

Show your work

#5

Choose the best answer

$b=5t+8$ is an equation that tells Ethan how many paper boats he can fold in a set amount of time. The variable t is the minutes he has to fold, and b is how many boats he will fold. If he has 10 minutes, how many boats can he fold? If he has 10 minutes, how many boats can he fold?

- ○ 58
- ○ 56
- ○ 40
- ○ 62

Show your work

#6

Choose the best answer

$t=9w$ is the equation Cameron uses to figure out how long to cook the turkey every year. The variable w is the weight of the turkey, and t is the total time to cook the turkey in minutes. If Cameron has a turkey that weighs 5 pounds, how many minutes does he need to cook it for?

- ○ 52
- ○ 48
- ○ 38
- ○ 45

Show your work

#7

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: $t=10p$. 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 7 items?

- ○ 70
- ○ 82
- ○ 88
- ○ 56

Show your work

#8

Choose the best answer

The following equation shows how much money per hour Evan makes: $m=9h$. The variable h represents the number of hours worked, and the variable m represents the total money earned. How much money does Evan makes if he works 10 hours?

- ○ 105
- ○ 89
- ○ 90
- ○ 88

Show your work

#9

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

#10

Choose the best answer

The equation $d=7r+10$ is used by Alexander to calculate how many days until the grass needs to be cut again. The variable r is how much rain received since the last time the grass was cut, and d is how many days until it needs to be cut. If it has rained 4 millimeters since the last cut, how many days are there until it needs to be cut again?

- ○ 48
- ○ 30
- ○ 38
- ○ 34

Show your work

#11

Choose the best answer

The equation $y=9a+6$ is the equation Farmer Connor uses to calculate how many yams his field will yield at the end of the season. The variable a is the area of the field (ex. 20 sq ft), and the variable y is the number of yams. If he planted 9 sq ft of yams in his field this year, how many yams will he have?

- ○ 110
- ○ 111
- ○ 90
- ○ 87

Show your work

#12

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

Question	Answer
#1	35
#2	27
#3	81
#4	46
#5	58
#6	45
#7	70
#8	90
#9	37
#10	38
#11	87
#12	28