

#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 : $t=5d$. If Alyssa wants to go to the grocery store that is 4 kilometers away, how long will it take?

- 19 20
 22 21

Show your work

#2

Choose the best answer

The equation $y=3a+8$ is the equation Farmer Zoe uses to calculate how many yams her 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 she planted 7 sq ft of yams in her field this year, how many yams will she have?

- 33 25
 22 29

Show your work

#3

Choose the best answer

This equation shows the relationship of number of minutes t to drive somewhere based on the distance in kilometers d : $t=3d$. If Alexa wants to go to the grocery store that is 3 kilometers away, how long will it take?

- 12 10
 9 7

Show your work

#4

Choose the best answer

$a=6e+3$ 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 6 years old, how old are they in alien years?

- 50 39
- 45 29

Show your work

#5

Choose the best answer

This equation shows how the number of cookies Josie can bake is related to the amount of flour she has: $c=6f+4$. 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 6 scoops of flour, how many cookies can Christopher bake?

- 40 34
- 43 37

Show your work

#6

Choose the best answer

The equation $d=7r+5$ is used by Benjamin 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 5 millimeters since the last cut, how many days are there until it needs to be cut again?

- 38 40
- 51 39

Show your work

#7

Choose the best answer

$b=2t+9$ is an equation that tells Nathan 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 7 minutes, how many boats can he fold? If he has 7 minutes, how many boats can he fold?

- 30 19
 23 21

Show your work

#8

Choose the best answer

Zachary is a landscaper and wants to estimate how long it will take to mow a certain area of lawns. He makes the equation $t=4a$, where t is the time in minutes it will take and a is the area of the lawn in square feet. How long will it take to mow 8 square feet of lawn?

- 34 27
 32 37

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 10 seconds?

- 22 26
 30 36

Show your work

#10

Choose the best answer

This equation shows the relationship of number of minutes t to drive somewhere based on the distance in kilometers d : $t=8d$. If Evan wants to go to the grocery store that is 3 kilometers away, how long will it take?

- 28 26
 24 30

Show your work

#11

Choose the best answer

The equation $y=9a+4$ is the equation Farmer Tyler 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 10 sq ft of yams in his field this year, how many yams will he have?

- 94 69
 96 112

Show your work

#12

Choose the best answer

The equation $p=9f+5$ is used by Dylan to calculate how many presents he will receive over the year. The variable f is how many good things he has done this year, and variable p is how many presents he'll receive. If Dylan is 10 years old, how many presents does he think he'll get this year?

- 112 95
 79 119

Show your work

Question	Answer
#1	20
#2	29
#3	9
#4	39
#5	40
#6	40
#7	23
#8	32
#9	30
#10	24
#11	94
#12	95