Dependent & Independent Variables · 1

A car uses gas as it drives. Let d be the distance driven and g be the gallons of gas used. Which variable is the independent variable? Write d or g.

Dependent & Independent Variables · 2

A baker puts 9 muffins in each box. Write an equation for the number of muffins m in b boxes.

Dependent & Independent Variables · 3

A pool fills with water over time. Let t be the minutes and v be the gallons in the pool. Which variable is the dependent variable? Write t or v.

Dependent & Independent Variables · 4

Use the equation $y = 7x + 1$ to find y when $x = 7$.

Dependent & Independent Variables · 5

Kim is 12 years older than her brother. Write an equation for Kim's age k when her brother is a years old.

Dependent & Independent Variables · 6

The number of pages Ava reads depends on the minutes she reads. Let r be the minutes and n be the pages. Which variable is the independent variable? Write r or n.

Dependent & Independent Variables · 7

Ava reads 5 pages each day. Write an equation for the pages p she reads in d days.

Dependent & Independent Variables · 8

Use the equation $y = 5x + 3$ to find y when $x = 6$.

Dependent & Independent Variables · 2

**ANSWER**

$m = 9b$

Dependent & Independent Variables · 1

**ANSWER**

$d$

Dependent & Independent Variables · 4

**ANSWER**

$50$

Dependent & Independent Variables · 3

**ANSWER**

$v$

Dependent & Independent Variables · 6

**ANSWER**

$r$

Dependent & Independent Variables · 5

**ANSWER**

$k = a + 12$

Dependent & Independent Variables · 8

**ANSWER**

$33$

Dependent & Independent Variables · 7

**ANSWER**

$p = 5d$

Dependent & Independent Variables · 9

A tank already has 4 gallons of water, and g more gallons are added. Write an equation for the total gallons t.

Dependent & Independent Variables · 10

The cost of apples depends on how many pounds you buy. Let p be the pounds and c be the cost. Which variable is the independent variable? Write p or c.

Dependent & Independent Variables · 11

Tickets cost 10 dollars each. Write an equation for the total cost c of n tickets.

Dependent & Independent Variables · 12

The cost of apples depends on how many pounds you buy. Let p be the pounds and c be the cost. Which variable is the dependent variable? Write p or c.

Dependent & Independent Variables · 13

Use the equation $y = 3x + 2$ to find y when $x = 6$.

Dependent & Independent Variables · 14

Ava reads 15 pages each day. Write an equation for the pages p she reads in d days.

Dependent & Independent Variables · 15

The number of pages Ava reads depends on the minutes she reads. Let r be the minutes and n be the pages. Which variable is the dependent variable? Write r or n.

Dependent & Independent Variables · 16

Ava reads 4 pages each day. Write an equation for the pages p she reads in d days.

Dependent & Independent Variables · 10

**ANSWER**

**p**

Dependent & Independent Variables · 9

**ANSWER**

**t = g + 4**

Dependent & Independent Variables · 12

**ANSWER**

**c**

Dependent & Independent Variables · 11

**ANSWER**

**c = 10n**

Dependent & Independent Variables · 14

**ANSWER**

**p = 15d**

Dependent & Independent Variables · 13

**ANSWER**

**20**

Dependent & Independent Variables · 16

**ANSWER**

**p = 4d**

Dependent & Independent Variables · 15

**ANSWER**

**n**

Use the equation y = 5x + 7 to find y when x = 3.



Kim is 5 years older than her brother. Write an equation for Kim's age k when her brother is a years old.



A tank already has 3 gallons of water, and g more gallons are added. Write an equation for the total gallons t.



The total price of pizzas depends on how many are ordered. Let z be the number of pizzas and y be the total price. Which variable is the independent variable? Write z or y.



Use the equation y = 2x + 8 to find y when x = 8.



Kim is 11 years older than her brother. Write an equation for Kim's age k when her brother is a years old.



A plant grows taller each week. Let w be the number of weeks and t be the plant's height. Which variable is the dependent variable? Write w or t.



Use the equation y = 2x + 4 to find y when x = 6.

Dependent & Independent Variables · 18

**ANSWER**

$k = a + 5$

Dependent & Independent Variables · 17

**ANSWER**

22

Dependent & Independent Variables · 20

**ANSWER**

z

Dependent & Independent Variables · 19

**ANSWER**

$t = g + 3$

Dependent & Independent Variables · 22

**ANSWER**

$k = a + 11$

Dependent & Independent Variables · 21

**ANSWER**

24

Dependent & Independent Variables · 24

**ANSWER**

16

Dependent & Independent Variables · 23

**ANSWER**

t