#1

ID: b86123af

Hiro and Sofia purchased shirts and pants from a store. The price of each shirt purchased was the same and the price of each pair of pants purchased was the same. Hiro purchased 4 shirts and 2 pairs of pants for \$86, and Sofia purchased 3 shirts and 5 pairs of pants for \$166. Which of the following systems of linear equations represents the situation, if x represents the price, in dollars, of each shirt and y represents the price, in dollars, of each pair of pants?

- A) 4x + 2y = 863x + 5y = 166
- ^{B)} 4x + 3y = 862x + 5y = 166
- ^{C)} 4x + 2y = 1663x + 5y = 86
- ^{D)} 4x + 3y = 1662x + 5y = 86

#2

ID: 608eeb6e

$$5x = 15$$
$$-4x + y = -2$$

The solution to the given system of equations is (x, y). What is the value of x + y?

A) -17

B) -13

- **C)** 13
- **D)** 17

ID: b0fc3166

#4

ID: cdec4c87

y = 12x - 20

y = 28

What is the solution (x, y) to the given system of equations?

- A) (4,28)
- **B)** (20, 28)
- **C)** (28,4)
- D) (28,20)

#5

ID: dba8d38a

A petting zoo sells two types of tickets. The standard ticket, for admission only, costs \$5. The premium ticket, which includes admission and food to give to the animals, costs \$12. One Saturday, the petting zoo sold a total of 250 tickets and collected a total of \$2,300 from ticket sales. Which of the following systems of equations can be used to find the number of standard tickets, s, and premium tickets, p, sold on that Saturday?

- A) s + p = 250 5s + 12p = 2,300
- B) s + p = 250 12s + 5p = 2,300

D) 12s + 5p = 250s + p = 2,300



#3





D) (5,6)

ID: e6545fa8

Math	I	Algebra	I	Systems of two l	ine	ar equations in two variables	I	Easy

ID: 317e80f9

x + y = 18

5y = x

What is the solution (x, y) to the given system of equations?

A) (15,3)

#8

B) (16,2)

- **C)** (17,1)
- D) (18,0)

#9

ID: aff28230

x = 10

y = x + 21

The solution to the given system of equations is (x, y). What is the value of y?

A) 2.1

- **B)** 10
- **C)** 21

D) 31



C) (2,3)D) (2,7)

#11

ID: e1259a5a

A system of two linear equations is graphed in the xy-plane below.



Which of the following points is the solution to the system of equations?

A) (3,9)

B) (6,15)

- **C)** (8,10)
- D) (12,18)

Math I Algebra I Systems of two linear equations in two variables I Easy									
#12	ID: 9db5b5c1		#14	ID: f88970cc					
4x = 20 $-3x + y = -7$ The solution to the given system (x, y) . What is the value of $x + y$ A) -27 B) -13 C) 13 D) 27	n of equations is ?		 Which of the solution to t <i>xy</i>-plane? A) (0,0) B) (5,-3) C) (5,-8) D) (5,8) 	x = 5 y = x - 8 e following points (x, y) is the the given system of equations in the					
#13	ID: ca9bb527		#15	ID· ffb371f5					

$$y = 4x - 9$$
$$y = 19$$

What is the solution (x, y) to the given system of equations?

A) (4,19)

B) (7,19)

- C) (19,4)
- D) (19,7)

-3x + y = -6The solution to the given system of equations is

3x = 12

(x, y). What is the value of y?

A) -3

B) 6C) 18

D) 30

Math 1 Algebra 1 Systems of two linear equations in two variables 1 Easy#16ID: cce00725#16ID: cce00725Connor has c dollars and Maria has m dollars.
Connor has 4 times as many dollars as Maria,
and together they have a total of \$25.00. Which
system of equations represents this situation?
A)
$$c = 4m$$
A) $c = 4m$ A dance teacher ordered outfits for students for
a dance recital. Outfits for obys cost \$26, and
outfits for juris cost \$35. The dance teacher
ordered a total of 28 outfits and spent \$881. If b
represents the number of outfits the dance
teacher ordered for boys and g represents the
number of outfits the dance teacher ordered for
girls, which of the following systems of
equations can be solved to find b and g ?(A) $2 cb + 35g = 28$
 C $c = 25m$
 $c + m = 4$ B
 $2 cb + 35g = 28$
 $b + g = 881$ (D) $m = 25c$
 $c + m = 4$ D
 $m = 25c$
 $c + m = 4$ D
 $m : e0177f5f$ $x = 4$
 $y = 5 \cdot x$ The solution to the given system of equations is
 (x, y) . What is the value of y ?D
 $2 6g + 35b = 881$
 $b + g = 28$ (D) $2 6g + 35b = 35b = 28$
 $b + g = 28$ D
 $2 6g + 35b = 881$
 $b + g = 28$ (D) $2 6g + 35b = 816$
 $b + g = 28$ D
 $2 6g + 35b = 881$
 $b + g = 28$ (D) $2 6g + 35b = 35b = 26$
 $b + g = 28$ D
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 $b + g = 28$ (D) $3 - 2$ D
 $b + g = 28$ (D) $3 - 2$ D
 $b + g = 28$ (D) $4 - 2b + 35b + 35b + 35b +$

#20



A) (0,5)

B) (2,4)

C) (5,10)

D) (10,0)



s + 7r = 27

ID: 939fc21b

ID: cd33b015



2(x + y) + 3y = 85

If (x, y) is the solution to the given system of equations, what is the value of y ?

A) 10

#22

- B) 15
- C) 60
- D) 65

D) 45

#23 y = -3x 4x + y = 15The solution to the given system of equations is (x, y). What is the value of x? A) 1 B) 5 C) 15



The graph of a system of linear equations is shown. The solution to the system is (x, y). What is the value of x?

#25

ID: 0d1dca87

$$3x + y = 29$$
$$x = 2$$

If (x, y) is the solution to the given system of equations, what is the value of y ?

#28

#26

ID: 0df106df

ID: 17f176ec

An online bookstore sells novels and magazines. Each novel sells for \$4, and each magazine sells for \$1. If Sadie purchased a total of 11 novels and magazines that have a combined selling price of \$20, how many novels did she purchase?

- A) 2
- B) 3
- C) 4
- D) 5

#27

ID: 7d89376f

A discount airline sells a certain number of tickets, x, for a flight for \$90 each. It sells the number of remaining tickets, y, for \$250 each. For a particular flight, the airline sold 120 tickets and collected a total of \$27,600 from the sale of those tickets. Which system of equations represents this relationship between x and y ?

- A) $\begin{cases} x+y=120\\ 90x+250y=27,600 \end{cases}$
- B) $\begin{cases} x+y=120\\ 90x+250y=120(27,600) \end{cases}$

C)
$$\begin{cases} x + y = 27,600 \\ 90x + 250y = 120(27,600) \end{cases}$$

D)
$$\begin{cases} 90x = 250y \\ 120x + 120y = 27,600 \end{cases}$$

A movie theater charges \$11 for each full-price ticket and \$8.25 for each reduced-price ticket. For one movie showing, the theater sold a total of 214 full-price and reduced-price tickets for \$2,145. Which of the following systems of equations could be used to determine the number of full-price tickets, f, and the number of reduced-price tickets, r, sold?

A)
$$f+r=2,145$$

 $11f+8.25r=214$

^{C)}
$$f + r = 214$$

8.25 $f + 11r = 2,145$

#29

ID: 44d65912

ID: 4b76c7f1

Angela is playing a video game. In this game, players can score points only by collecting coins and stars. Each coin is worth c points, and each star is worth s points.

- The first time she played, Angela scored 700 points. She collected 20 coins and 10 stars.
- The second time she played, Angela scored 850 points. She collected 25 coins and 12 stars.

Which system of equations can be used to correctly determine the values of c and s ?

- ^{A)} 10c + 20s = 70012c + 25s = 850
- ^{B)} 20c + 10s = 70025c + 12s = 850
- ^{C)} 20c + 700s = 1025c + 850s = 12

$$\begin{array}{c} \text{D)} & 700c + 20s = 10 \\ & 850c + 25s = 12 \end{array}$$

2x + 7y = 98x + 28y = a

In the given system of equations, a is a constant. If the system has infinitely many solutions, what is the value of a ?

A) 4

B) 9

- C) 36
- D) 54