

Algebra 1 6.5

Solve systems of equations

Determine the best method to solve a system

Apply systems of equations

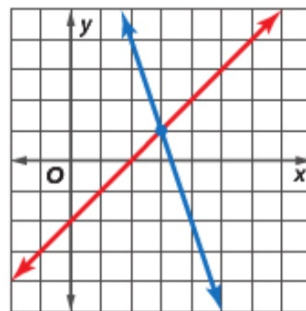
solve by graphing

solve by substitution

solve by elimination

whiteboards

$$y = -3x + 10$$
$$y = x - 2$$



$$\text{🍔} + \text{🍔} + \text{🍔} = 60$$

$$\text{🍔} + \text{🍟} + \text{🍟} = 40$$

$$\text{🍕} + \text{🍕} + \text{🍟} = 20$$

$$\text{🍔} + \text{🍕} + \text{🍟} = ?$$

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$$\text{🌮} + \text{🌮} + \text{🌮} = 12$$

$$\text{🍔} + \text{🌮} + \text{🍔} = 16$$

$$\text{🍔} + \text{🍔} + \text{🍗} = 21$$

$$\text{🌮} + \text{🍗} \times \text{🍔} = ?$$

Puzzle ID: 2287

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$$t = 4$$

$$h = 6$$

$$m = 9$$

$$4 + 2 \cdot 9 \cdot 6 = 112$$

Whiteboards:

1. Determine the best method (substitution or elimination) to solve the system.

2. Explain your choice. " We chose *substitution* because..."

3. Solve the system.

$$\begin{aligned}x &= \\y &= \end{aligned}$$

Elim

$$\text{not } \begin{aligned}x &= \\y &= \end{aligned}$$

1. $2x + 3y = -11$
 $-8x - 5y = 9$

$(2, -5)$

2. $3x + 4y = 11$

$2x + y = -1$

$(-3, 5)$

12. **FINANCIAL LITERACY** For a Future Teachers of America fundraiser, Denzell sold food as shown in the table. He sold 11 more subs than pizzas and earned a total of \$233. Write and solve a system of equations to represent this situation. Then describe what the solution means.

Item	Selling Price
pizza	\$5.00
sub	\$3.00

$L = \text{lunch}$ $p = \text{paintball}$

16. **PAINTBALL** Clara and her friends are planning a trip to a paintball park. Find the cost of lunch and the cost of each paintball. What would be the cost for 400 paintballs and lunch?

$$\begin{aligned} 500p + L &= 25 \\ &= 16 \end{aligned}$$



18. **BOOKS** The library is having a book sale. Hardcover books sell for \$4 each, and paperback books are \$2 each. If Connie spends \$26 for 8 books, how many hardcover books did she buy?

19. **MUSIC** An online music club offers individual songs for one price or entire albums for another. Kendrick pays \$14.90 to download 5 individual songs and 1 album. Geoffrey pays \$21.75 to download 3 individual songs and 2 albums.
- How much does the music club charge to download a song?
 - How much does the music club charge to download an entire album?