Name_____

Date _____ Pd _____
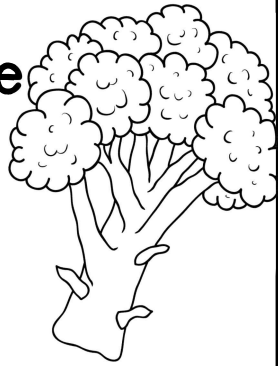
TWO-STEP EQUATIONS

Each of the 10 cards will have statements from two students. Read carefully and choose the name of the student who made the correct statement. Then justify your answer in the space provided.

❶ _____ is correct because...

❷ _____ is correct because...

❸ _____ is correct because...

❹ _____ is correct because...

❺ _____ is correct because...

❻ _____ is correct because...

❼ _____ is correct because...

❽ _____ is correct because...

❾ _____ is correct because...

❿ _____ is correct because...

CARd 1:

A monthly produce box is delivered to Ms. Jones' door. There is an initial set up fee of $25.00 plus $30.00 each week. If Ms. Jones spent $265, then how many weeks did she receive the produce box?

Ahmed says eight weeks because
$25 + 30x = 265$.

Amy says nine weeks because
$30 + 25x = 265$.

CARd 2:

A student works the following problem on an exam.

$$-\frac{2}{3}x + 6 = 5$$

$$-\frac{2}{3}x = -1$$

$$-x = \frac{3}{2}$$

$$x = -\frac{3}{2}$$

Bart says the problem is solved correctly.

Bernice says its incorrect and should be
$$x = \frac{3}{2}.$$

CARd 3:

Solve the following equation.

$$6x - 3.5 = -15.5$$

Cedrick says that the solution is x = -3.16
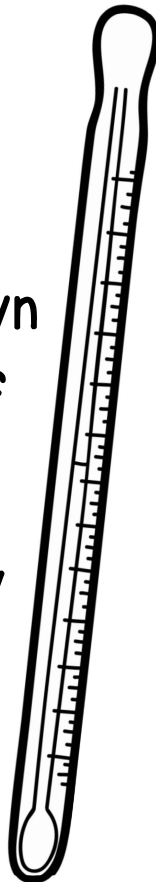
Carly says that the solution is x = -2.

CARd 4:

The temperature of the pool water started at 82 degrees and is cooling down 0.4 degrees each hour. If the water temperature is now 78 degrees, then how many hours have passed?

Dakota says 10 hours because $82 - 0.4x = 78$.

Diego says 25 hours because $78 - 0.4x = 82$.

CARd 5:

A student works the following problem on an exam.

$$10 + \frac{x}{5} = 5$$

$$\frac{x}{5} = -5$$

$$x = -25$$

Emilio says that it is incorrect, and the answer should be x = 25.

Elisa says that the problem solved correctly.

CARd 6:

Solve the following equation.

$$9.5 - 1.5x = -4$$

Francisco says that the solution is x = 9.
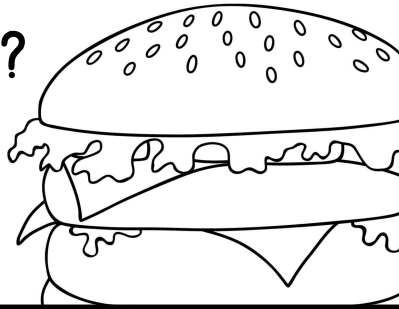
Felicity says that the solution is x = -9.

CARd 7:

While touring the city, Bernie buys lunch for his family from a food truck. He purchases one taco for $2.75 and four cheeseburgers. If he spent a total of $23.75, how much was each cheeseburger?

Gerald says $5.25 because
$4x + 2.75 = 23.75$.

Gia says $6.25 because
$23.75 = 4x - 2.75$.

CARd 8:

A student works the following problem on an exam.

$$-\frac{x}{3} + 5 = -22$$

$$-\frac{x}{3} = -17$$

$$x = 51$$

Horacio says that the problem is incorrect and should be x = 81.

Heidi says that the solution is solved correctly.

CARd 9:
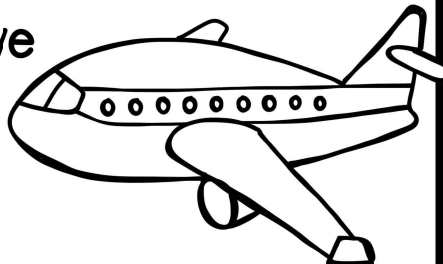
Solve the following equation.

$$15 - \frac{x}{6} = -8.5$$

Ivan says that the solution is x = -39.

Idalia says that the solution is x = 141.

CARd 10:

The Hudson family is saving for a family vacation to Disney World. They determine that the trip will cost $3,200. Mr. and Mrs. Hudson have already set aside $1,500 for the trip. If they leave in 16 weeks, how much will they need to save each week?

Jacoby says that they need to save $293.75 per week.

Janelle says that they need to save $106.25 per week.