

WRITING EQUATIONS

Show your work in each box. Then, record your solution by writing the letter of the puzzle piece in the correct order at the bottom.

START	A	B
C	D	E
F	G	H

SOLUTION

START → ____ → ____ → ____ → ____ → ____ → ____ → ____ → ____ → FINISH

START

Aimee is selling cookies at a local fair for \$2 each. She spent \$48 on supplies and renting a booth at the fair. How many cookies does she need to sell in order to make a profit of \$60?

A

$$2x - 48 = 246$$

Jeremy is saving money over the next 4 months for his vacation. He will spend \$500 on airfare and a hotel. How much does he need to save each month to have \$880 in spending money?

B

$$2,000x + 24 = 4,850$$

Abigail orders a shirt and two identical pairs of jeans from Amazon. The total bill is \$246. If the shirt costs \$48, then how much does each pair of jeans cost?

C

$$2,000 + 24x = 4,850$$

Painting with a Twist offers painting classes. They charge a supply fee of \$20 and a studio fee of \$8 per hour. If Kara budgets \$60 for painting classes, then how many hours can she paint?

D

$$4x - 500 = 880$$

The water temperature in the swimming pool began at 48 degrees, and it is rising 2 degrees each hour. If the water temperature is 60 degrees, then how many hours have passed?

E

$$2x - 48 = 60$$

An author is paid \$500 as an advance on their book and earns an additional \$4 for every book sold. If the author earns \$880, then how many books has the author sold?

F

$$2x + 48 = 60$$

Diego is buying his grandfather's car for \$4,850. He puts \$2,000 down and will make 24 equal payments to pay off the car. If he is not charged interest, then how much will each payment be?

G

$$20 + 8x = 60$$

A swimming pool started with 24 gallons of water. It is filled with 2,000 gallons per hour. If there are now 4,850 gallons of water in the swimming pool, how many hours has it been filling up with water?

H

$$4x + 500 = 880$$

Todd would like to purchase a bicycle that costs \$246. This is \$48 less than twice the cost of his last bicycle. How much did his last bicycle cost?

$$2x + 48 = 246$$

FINISH

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START	A	B
$2x - 48 = 60$	$4x - 500 = 880$	$2x + 48 = 246$
C	D	E
$20 + 8x = 60$	$2x + 48 = 60$	$4x + 500 = 880$
F	G	H
$2,000 + 24x = 4,850$	$2,000x + 24 = 4,850$	$2x - 48 = 246$

SOLUTION

START → E → H → A → D → F → C → G → B → FINISH