

ONE-STEP EQUATIONS APPLICATION I

Remember the questions to ask yourself as you solve real-world problems:

What information
are you given?

What are you solving for?

Does your solution
make sense in the
context of the
problem?

Practice setting up an equation for each of the situations below. Do not solve.

1. The average cost of a school lunch today is \$4.35, which is \$2.85 more than the average cost of a lunch in 1990. What was the average cost of a school lunch in 1990?

a. What does the variable represent? _____

b. Write an equation: _____

2. Your little sister is too small to stand on the scale. You decide to get on the scale holding her and find your combined weight to be 112 pounds. You know that you weigh 94 pounds. How much does your little sister weigh?

a. What does the variable represent? _____

b. Write an equation: _____

Practice setting up an equation and solving the real-world situations below.

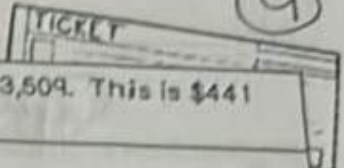
3. The charge for a microwave repair was \$81.21, including tax. If the tax was \$6.70, then how much was the repair?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:



4. According to CBS, the average cost of a Super Bowl ticket in 2010 was \$3,509. This is \$441 less than the cost of a 2015 ticket. How much was a ticket in 2015?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

5. According to CBS, in 2000 the average cost of a World Series ticket was \$450. This is \$180 more than the cost of a 2007 ticket. How much was a ticket in 2007?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

6. A skyscraper in Dubai is 2,722 feet high. A news station antenna in North Dakota measures 659 feet shorter than the Dubai skyscraper. How tall is the news station antenna?

I KNOW:

I NEED TO KNOW:

PLAN AND WORK:

SOLUTION:

Name _____

Class _____

Date _____

One-Step Equations Riddle!

Directions: Solve each equation. Then write the letter above the line that the answer corresponds to.

Where do pencils go for vacation?

2333168347361947164050

I $m + 13 = 20$

A $20 = f - 27$

C $3x = 102$

N $64 = 4e$

P $t + 28 = 51$

I $r - 10 = 30$

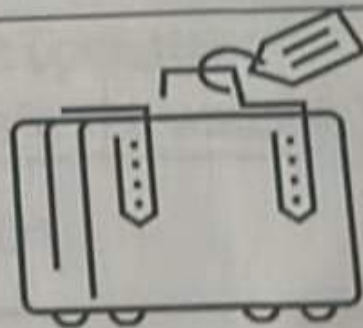
A $p - 11 = 39$

L $\frac{y}{3} = 12$

E $61 = 28 + n$

N $21 = \frac{b}{8}$

V $95 = 5k$

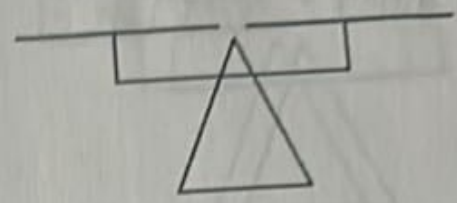


EXTRA PRACTICE: Model and Solve Equations

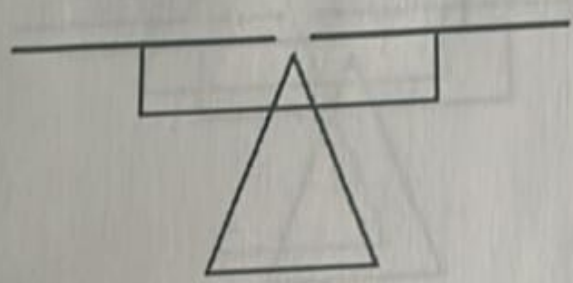
$$x + 6 = 9$$



$$x - 3 = 10$$



$$x + (-5) = 4$$

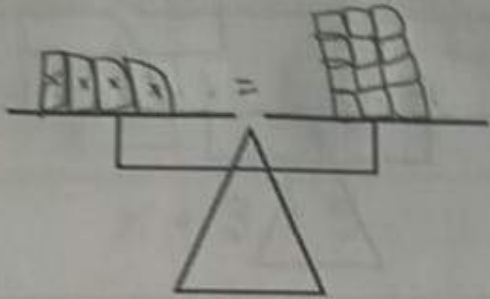


$$x - 2 = -7$$

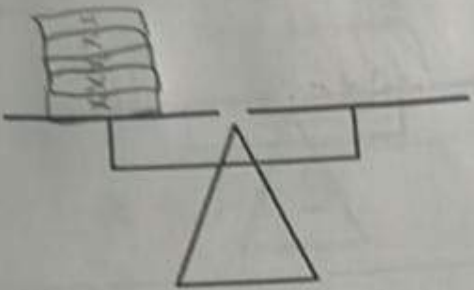


NOTES: Solving with Models Practice (Multiplication)

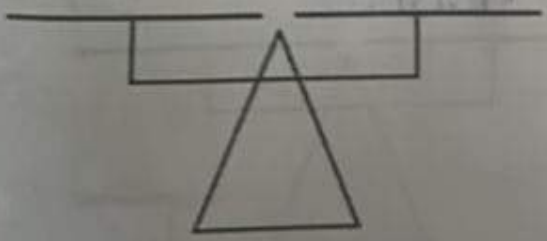
$$4x = 12$$



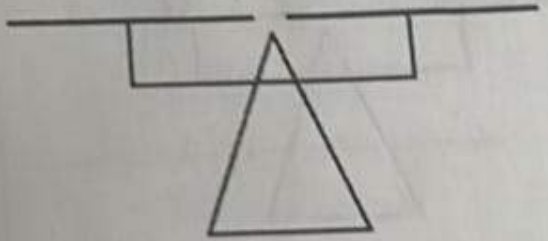
$$5x = 15$$



$$2x = -12$$

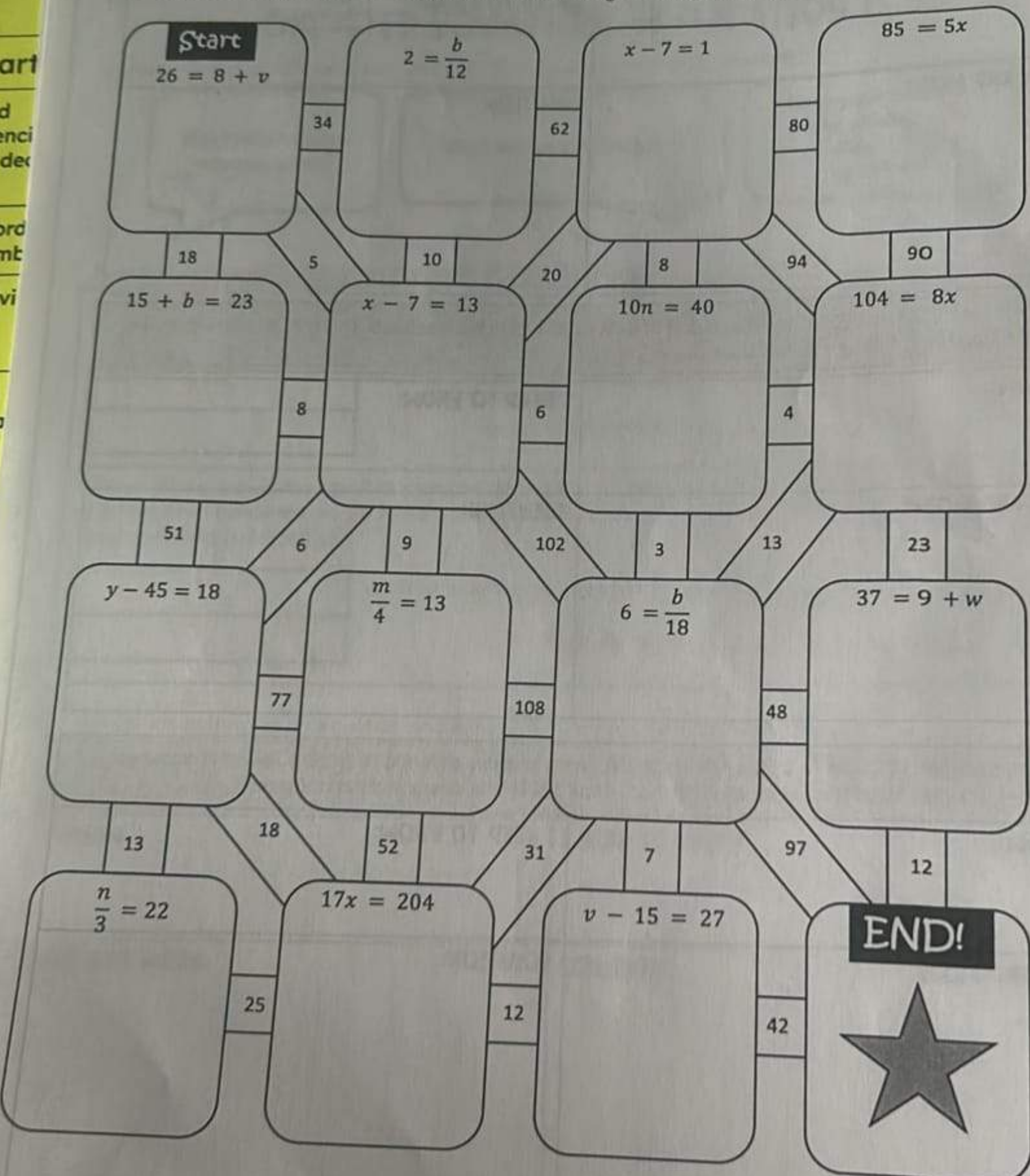


$$3x = 21$$



One-Step Equations Maze!

Directions: Solve each equation. Use your solutions to navigate through the puzzle. SHOW ALL STEPS!



Start

$$26 = 8 + v$$

$$2 = \frac{b}{12}$$

$$x - 7 = 1$$

$$85 = 5x$$

$$15 + b = 23$$

$$x - 7 = 13$$

$$10n = 40$$

$$104 = 8x$$

$$y - 45 = 18$$

$$\frac{m}{4} = 13$$

$$6 = \frac{b}{18}$$

$$37 = 9 + w$$

$$\frac{n}{3} = 22$$

$$17x = 204$$

$$v - 15 = 27$$

END!

