



# MULTI-STEP PROBLEM SOLVING



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# TO THE TEACHER

- This product is meant to be a no frills, all action tool for cementing the concept of multi-step problem solving in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
  - TEKS
    - 5.4b represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity

# PREP RECOMMENDATIONS

- Each activity is created in black and white to conserve color ink.
  - Using colored paper to differentiate different parts in each activity or the different stations will help students to stay organized.
- If you plan to use the activities for small group or partner activities over time, I would recommend laminating them for durability.

# CONTENT VOCABULARY

represent

solve

use

multi-step problem

operation

whole numbers

equation

unknown quantity

decrease

increase

each

total

sum

quotient

product

difference

variable

represent

solve

use

multi-step  
problem

operation

whole  
numbers

equation

unknown  
quantity

decrease

increase

each

total



sum

quotient

product

difference

variable

review

pre

# EQUATION MATCH

Match each equation to the  
multi-step word problem that it  
represents.

# TEACHER SUGGESTIONS

## EQUATION MATCH

- In this activity students are asked to match each equation to the multi-step word problem that it represents.
- This activity can be used in a variety of ways:
  - ✓ Small group with teacher guidance
  - ✓ A partner activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Word Problem Cards
- Equation Cards
- Recording Sheet
- Answer Key

#### Not Included:

- Pencil

1

Gabriel watched 3 half hour shows and a 96 minute movie. If he took no breaks in between each show and movie how long was he watching for?

2

Brandy spent \$12 on lunch, \$6 each on two different shirts, and \$8 on a movie ticket. If she started with \$50, how much money does she have left?

3

Veronica has two notebooks. Each notebook has 96 pages. So far she has used 34 pages. How many pages are still blank?

4

Tess has saved \$50 towards buying a prom dress. She made \$12 by mowing a lawn, and \$8 for walking a dog. If she then spent \$6 of her savings, how much money does she have left?

5

Jake checked out two books. The first book was 198 pages long and he has read 45 pages of it. the second book is 129 pages and he hasn't started it yet. How many pages does he have left to read?

6

A math test has 48 questions. You have completed  $\frac{1}{2}$  of them already. If it takes you three minutes to complete each question, how much longer will it take you to complete the test?

7

There are 52 weeks in the year and seven days in a week. You are in school for 185 days a year. How many days are you not in school?

8

Greg saved \$12 a month for two years, but he also spent \$17 each year. At the end of the two years, how much money will he have saved?

9

Sean is pet sitting to save money for camp. He charges \$2 a day for a cat and \$5 a day for a dog. How much will he earn watching two cats and a dog for a week?

10

A plane ticket for Angel to visit her aunt is \$154. If she drives instead, she will need to fill up twice. It costs \$17 to fill up her gas tank. How much money can she save by driving instead of flying?

11

There are 13 Skittles, 14 M&Ms, and 9 Reese's Pieces. If three friends are sharing the candy equally, how many pieces of candy will each friend get?

12

A newspaper ad costs a small business \$250 to run for a single day. They also spent \$45 getting the ad designed. The day the ad ran the store made a \$600 profit. After covering the cost of the ad, how much did the store make that day?

$$(3 \times 30) + 96$$

$$50 - (12 + (6 \times 2) + 8)$$

$$(96 \times 2) - 34$$

$$50 + (12 + 8) - 6$$

$$(198 - 45) + 129$$

$$(4 \div 2) \times 3$$

$$(52 \times 7) - 135$$

$$(24 \times 12) - (2 \times 17)$$

$$2 \times (2 \times 7) + (5 \times 7)$$

$$154 - (2 \times 17)$$

$$(13 + 14 + 9) \div 3$$

$$600 - (250 + 45)$$



Name \_\_\_\_\_

# \_\_\_\_\_

Date \_\_\_\_\_

# EQUATION MATCH RESPONSE SHEET

Match each equation to the multi-step word problem it represents.

1

2

3

4

5

6

7

8

9

10

11

12

# EQUATION MATCH ANSWER KEY

**1**

$$(3 \times 30) + 96$$

**2**

$$50 - (12 + (6 \times 2) + 8)$$

**3**

$$(96 \div 2) - 34$$

**4**

$$50 + (12 + 8) - 6$$

**5**

$$(198 - 5) - 129$$

**6**

$$(48 \div 2) \times 3$$

**7**

$$(52 \times 7) - 185$$

**8**

$$(24 \times 12) - (2 \times 17)$$

**9**

$$2 \times (2 \times 7) + (5 \times 7)$$

**10**

$$154 - (2 \times 17)$$

**11**

$$(13 + 14 + 9) \div 3$$

**12**

$$600 - (250 + 45)$$

# SOLVE IT

Solve each multi-step word problem.

# TEACHER SUGGESTIONS

## SOLVE IT

- In this activity students are asked to solve multi-step word problems
- This activity can be used in a variety of ways:
  - Small group with teacher guidance
  - ✓ A warmer activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Word Problem Cards
- Recording Sheet
- Answer Key

#### Not Included:

- Pencil

1

Frank bought a snake at the pet store for \$27. He also bought it a terrarium for twice that much, and food for \$6. How much did he spend altogether at the pet store?

2

There are 13 boys and 9 girls in Mrs. Sundquist's homeroom. Each of the students has a box of 24 crayons to use in their science notebooks. How many crayons are being used?

3

Hanna has three identical paintings to frame. Each painting is 6 inches tall and 12 inches wide. How many inches of wood does Hanna need to frame all three paintings?

4

Alyssa drove 85 miles per hour for two hours, 60 miles per hour for half an hour, and 70 miles per hour for another hour. How far did she travel during this time?

5

A ticket to a baseball game is sold for \$54. Popcorn, a hot dog, and a drink can be purchased for \$4 each. How much would it cost for two people to go to the game and each get popcorn and a drink?

7

A building is 44 stories high. Each story has 3 apartments, and each apartment has 4 windows. How many windows are there in the building?

6

Payton is tiling her kitchen with 1 foot square tiles. The kitchen is 13 feet long and 12 feet wide. So far, she has put down 94 tiles. How many more tiles does she need to lay?

8

A room is 14 feet long and 16 feet wide. It has a large area rug that is 12 foot square. How many square feet of floor are not covered by the rug?

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# SOLVE IT RESPONSE SHEET (1/2)

Solve each multi-step word problem showing your work below.

1

2

3

4

Name \_\_\_\_\_

# \_\_\_\_\_

Date \_\_\_\_\_

# SOLVE IT RESPONSE SHEET (2/2)

Solve each multi-step word problem showing your work below.

5

6

7

8



# SOLVE IT ANSWER KEY

**1**

\$87

**2**

528

crayons

**3**

168

inches  
of wood

**4**

270

miles

**5**

124

**6**

60

more  
tiles

**7**

528

windows

**8**

80

square  
feet

# EXPLAIN IT

Use your math vocabulary to explain how you would solve the multi-step word problem.

# TEACHER SUGGESTIONS

## EXPLAIN IT

- In this activity students are asked to explain how they would solve a multi-step word problem using their math vocabulary.
- This activity can be used in a variety of ways:
  - ✓ Small group with teacher guidance
  - ✓ A partner activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Prompt with Recording Sheet

#### Not Included:

- Pencil

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# EXPLAIN IT RESPONSE SHEET

**Explain the process you would use to solve the following problem.**

Gus ordered 24 boxes of bouncy balls. Each box contains 16 bouncy balls.  
Gus gave away 8 of the bouncy balls to friends. How many bouncy balls  
does he have left?

# BOARD GAME

Play a game to solve multi-step word problems.

# TEACHER SUGGESTIONS

## BOARD GAME

- In this activity students are asked to play a board game that requires them to solve multi-step word problems.
- This activity can be used in a variety of ways:
  - ✓ Small group with teacher guidance
  - ✓ A partner activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

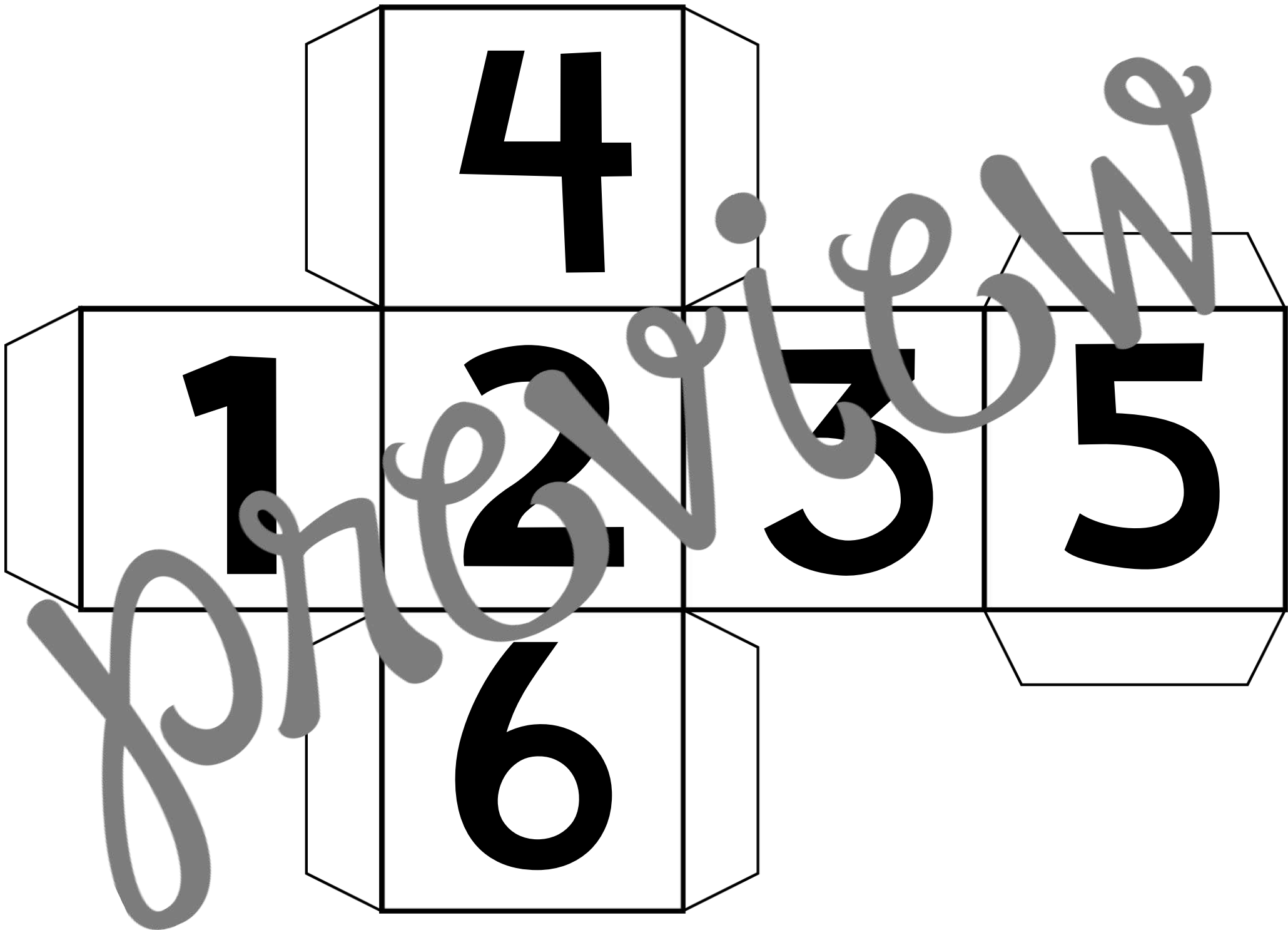
- Game Rules
- Game Board
- Problem Cards
- Die (can use regular die instead)
- Answer Key for Problem Cards

#### Not Included:

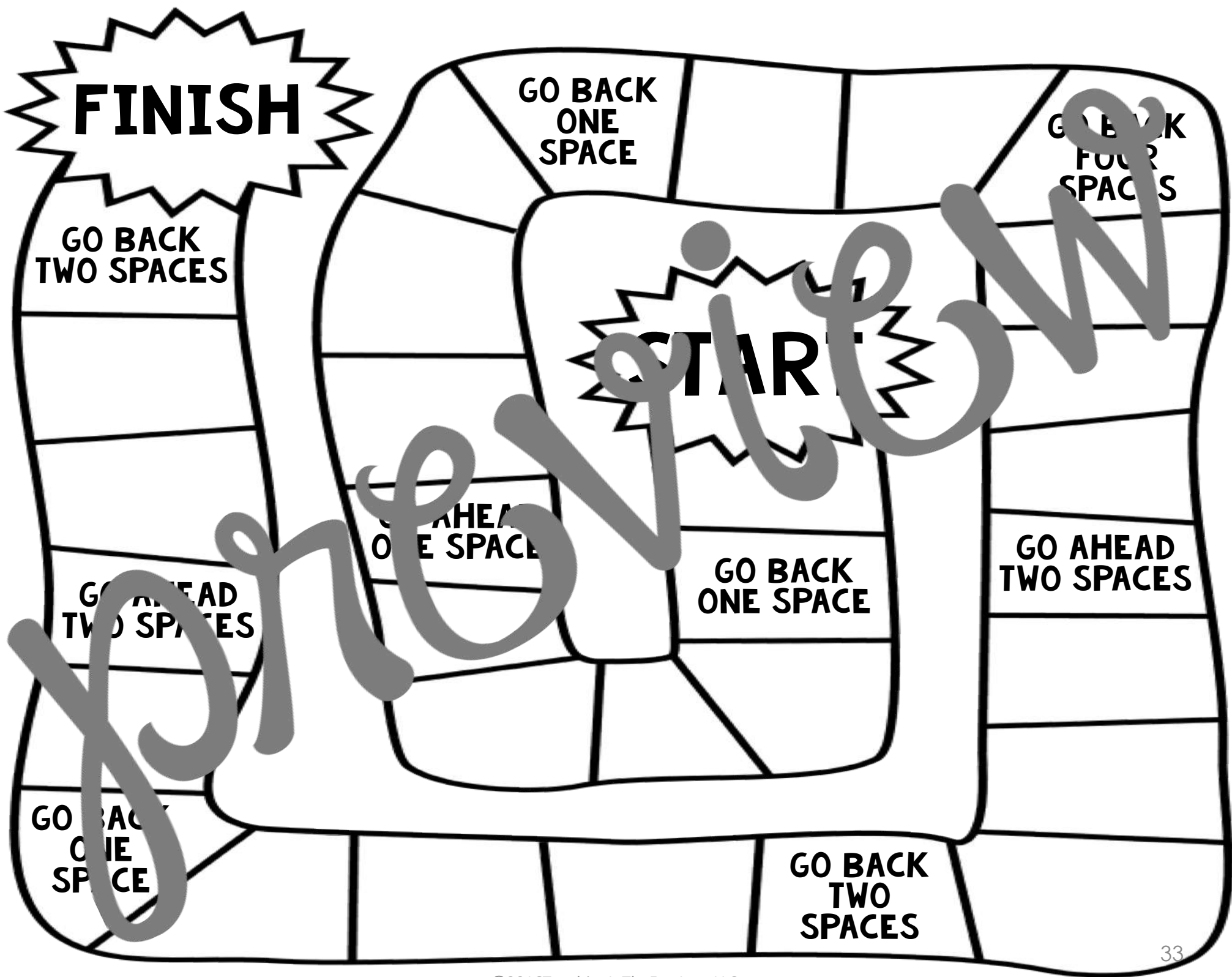
- Pencil

# **BOARD GAME DIRECTIONS**

- Roll the die to determine who goes first.
  - The player who rolls the highest number goes first and then rotates clockwise. (To the left)
- Pull a "Problem Card" and solve.
  - Another player checks your answer.
    - If correct, you roll the die and move forward that many spaces.
    - If incorrect, the next player takes their turn.
- If you land on a special space, follow the directions on the space.
- Continue play until a player reaches the finish.







1

Jean is putting flowers together into bouquets to sell at a market. She makes 23 bouquets with 3 flowers and 28 bouquets with 5 flowers each. How many flowers did she use to make her bouquets?

2

Shyanne is selling chocolate as a fundraiser for band. On Monday she sold 24. On Tuesday she sold twice as many as on Monday. On Wednesday she sold another 90. How many chocolates did she sell over three days?

3

Mickey is making bracelets to sell at a craft fair. She makes 21 pink bracelets and twice as many teal bracelets as pink bracelets. How many bracelets did she make for the craft fair?

4

Terry is working on homework. He spent 10 minutes on spelling, 20 minutes reading, and another 25 minutes on math. If he has an hour to complete his homework, how long does he have left?

5

Mark is baking some goodies. He bakes 2 dozen cookies and 3 dozen brownies. How many goodies does he bake?

6

Babs is counting the number of crayons in an art box. She counts 12 red crayons, 16 yellow crayons, and twice as many blue crayons as red crayons. How many crayons did she count in all?

7

Jay bought a box of a dozen cookies for \$4. How many cookies can he buy for \$24?

8

Leslie has one hour until her parents pick her up. She plays a computer game for 22 minutes and then reads for another 25 minutes. How much longer does she have until she gets picked up?

**9**

Shelly went grocery shopping and spent \$12 on produce, \$18 on meat, \$16 in dry goods, and \$8 on dairy. She has a coupon for half off of her total purchase. How much did she spend after the coupon?

**10**

Jarrett is scanning books for the librarian. He scans 127 books in an hour. The next hour he picks up the pace and scans three times as many books as the first hour. How many books did he scan over the two hours?

**11**

Drew is practicing juggling the soccer ball. He heads it four times, knees it three times as many times as he headed it. He also kicks it four times. How many times did Drew touch the ball while juggling it?

**12**

Stefan is buying a new gaming system. He spends half of his money on the console, another \$40 on a controller, and \$12 on a gaming pillow. If he started with \$200, how much money does he have left?

**13**

Granny is selling hats and mittens. She sells 12 hats for \$7 each and 6 pairs of mittens for \$5 each. How much money did she make selling hats and mittens?

**14**

Harry is walking laps around the track all week. On Monday he walks 4 laps. On Tuesday he walks twice as many laps as Monday. On Wednesday he walks 2 less laps than Tuesday. How many laps did he walk over the three days?

**15**

Betty baked 64 cookies. She ate four of them and then placed the rest in four bags. If she placed an equal amount in each bag, how many cookies were placed in a bag?

**16**

Anna is planning a trip to the beach. She budgets \$45 for gas, \$65 a night for two nights at a hotel, and \$50 for food. How much did she budget for her whole trip?

# BOARD GAME ANSWER KEY

|                            |                               |                             |                           |
|----------------------------|-------------------------------|-----------------------------|---------------------------|
| <b>1</b><br>209<br>flowers | <b>2</b><br>462<br>chocolates | <b>3</b><br>63<br>bracelets | <b>4</b><br>5<br>minutes  |
| <b>5</b><br>60<br>goodies  | <b>6</b><br>52<br>crayons     | <b>7</b><br>48<br>cookies   | <b>8</b><br>13<br>minutes |
| <b>9</b><br>\$27           | <b>10</b><br>508<br>books     | <b>11</b><br>20<br>times    | <b>12</b><br>\$48         |
| <b>13</b><br>\$114         | <b>14</b><br>18<br>laps       | <b>15</b><br>15<br>cookies  | <b>16</b><br>\$225        |

# QR CODES

Scan the “START” card and follow the directions to use all cards stopping at the “END” card.

# TEACHER SUGGESTIONS

## QR CODES

- In this activity students are asked to scan QR codes and follow the directions by solving multi-step word problems
- This activity can be used in a variety of ways:
  - ✓ Small group with teacher guidance
  - ✓ A partner activity for practice
  - ✓ Independently to assess

### Materials

Included:

- QR Code Cards

Not Included:

- A device capable of scanning QR Codes such as a smartphone or tablet



**START**



65



10



14



109



62



*preview*

42



15



88



45



35



5

**END**

# WRITE YOUR OWN

Write and solve your own  
multi-step word problems.

# TEACHER SUGGESTIONS

## WRITE YOUR OWN

- In this activity students are asked to create and solve their own multi-step word problems.
- This activity can be used in a variety of ways
  - ✓ Small group with teacher guidance
  - ✓ A warmer activity for practice
  - ✓ Independently to assess

### Materials

Included:

- Recording Sheet

Not Included:

- Pencil

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# WRITE YOUR OWN RESPONSE SHEET (1/2)

Write and then solve your own multi-step word problems.

|   |   |
|---|---|
| <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
|   |   |

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# WRITE YOUR OWN RESPONSE SHEET (2/2)

Write and then solve your own multi-step word problems.

|   |   |
|---|---|
| <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> |
|   |   |

# **SKETCH IT**

Sketch out a plan to solve for each multi-step word problem.

# TEACHER SUGGESTIONS

## SKETCH IT

- In this activity students are asked to sketch out a plan for solving each multi-step word problem
- This activity can be used in a variety of ways
  - ✓ Small group with teacher guidance
  - ✓ A warmer activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Word Problems
- Recording Sheet
- Answer Key to Compare to Sketches

#### Not Included:

- Pencil



1

Ben is folding origami to sell at his school's market day. Today he folded 12 pieces of origami, and he plans to fold double that amount tomorrow. How many pieces of origami will Ben have if he follows his plan?

2

Cammy is practicing for a donut eating contest. Last month she won a contest by eating 62 donuts. This month she won by eating 50 donuts. Next month she plans to eat twice as many donuts as the last two months combined. How many donuts does she plan to eat next month?

3

There are 400 hair ties in a bag. Half of the hair ties are black. A fourth of the hair ties that are not black are yellow. How many of the hair ties are not black or yellow?

4

452 visitors came to the zoo for a party. Three times as many visitors came for a fundraiser. How many visitors came to both the party and fundraiser?

5

Eric reads two pages every minute. Carl reads three pages every minute. How many more pages will Carl read in 20 minutes of silent reading than Eric?

6

There are 18 bottles of nail polish on a shelf. One third of the bottles are a shade of red. One half of what is left are shades of pink. How many of the bottles are neither a shade of red or pink?

7

Julie baked 7 dozen cookies last night. After they cooled she placed them in boxes to sell. Each box fits four cookies. How many boxes did she fill?

8

Baseball cards come in packs of 125 cards each. If Xander bought 2 packs and Jerry bought three packs, how many baseball cards do the boys have together?

Name \_\_\_\_\_

# \_\_\_\_\_

Date \_\_\_\_\_

# SKETCH IT RESPONSE SHEET (1/2)

Sketch out a plan to solve for each multi-step word problem.

1

2

3

4

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# SKETCH IT RESPONSE SHEET (2/2)

Sketch out a plan to solve for each multi-step word problem.

5

6

7

8

# SKETCH IT ANSWER KEY

**\*\*Students' sketches will vary, but should arrive at the same answers.\*\***

**1**

36

pieces of  
origami

**2**

244

donuts

**3**

150

hair ties

**4**

300

visitors

**5**

20

more  
pages

**6**

6

bottles

**7**

21

boxes

**8**

625

cards

# IDENTIFY THE EQUATION

Identify the equation needed to solve each of the multi-step word problems.

# TEACHER SUGGESTIONS

## IDENTIFY THE EQUATION

- In this activity students are asked to identify the equation that would be used to solve each multi-step word problem.
- This activity can be used in a variety of ways.
  - ✓ Small group with teacher guidance
  - ✓ Partner activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Word Problems
- Recording Sheet
- Answer Key

#### Not Included:

- Pencil

1

Michael is buying candy for party favor bags. He buys two large bags for \$9 each and three small bags for \$4 each. How much did Michael spend on candy?

2

Zac wants to bring snacks for his class on field day. His class has 12 boys and ten girls. If each snack costs \$3, how much will Zac spend bringing snacks?

3

Karen is shopping for new clothes. She buys 3 skirts, and twice as many shirts as skirts. She also buys 2 pairs of pants. How many new clothing items does she buy?

4

A statue is 18 yards tall. Since there are 3 feet in a yard and 12 inches in a foot, how many inches tall is the statue?



5

I bought two bags of beads. The smaller bag had 150 beads. The larger bag had 250 beads. If I split all the beads into 5 equal piles, how many beads will be in each pile?

6

Mr. Brooks is cleaning up his classroom. It takes him 10 minutes to dust, half that time to wipe down the desks, and 20 minutes to sweep and mop the floors. How long did it take him to clean his classroom?

7

Caitlin is buying birthday presents for her three nieces. She spent \$14 on one, \$11 on another, and \$12 on the last one. What is the average amount she spent on each gift?

8

Ramona is buying birdseed. A small bag is \$2 and a large bag is \$4. Would it be less expensive to buy five small bags or two large bags?

**9**

Tommy is organizing volunteers for field day. He needs 3 volunteers per hour for each of four different stations every hour for two hours. How many volunteers does Tommy need?

**10**

Patty is making a dress for a dance. She plans for buying 15 feet of fabric, but it is only sold by the yard. If each yard is \$6, how much will she spend on the fabric for her dress?

**11**

Halle save \$14 a month for 9 months. Her savings goal is \$150. How much more money does she need to save before reaching her goal?

**12**

A car has a 15 gallon gas tank and gets 25 miles per gallon. If a road trip is 450 miles long how much further will they need to go after the first tank of gas is used up?

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# IDENTIFY THE EQUATION RESPONSE SHEET

Identify and record the equation that represents each multi-step word problem.

1

2

3

4

5

6

7

8

9

10

11

12

# IDENTIFY THE EQUATION

## ANSWER KEY

**1**

$$(2 \times 9) + (3 \times 4) = \$30$$

**2**

$$(12 + 10) \times 3 = \$66$$

**3**

$$5 + (3 \times 2) - 2 = 11$$

clothing items

**4**

$$(18 \times 3) \times 12 = 648$$

inches

**5**

$$(150 + 250) \div 5 = 80$$

peaches

**6**

$$10 + (10 \div 2) + 20 = 35$$

minutes

**7**

$$(12 + 2 + 10) \div 2 = \$12$$

**8**

$$5 \times 2 > 4 \times 2$$

**9**

$$(3 \times 4) \times 2 = 24$$

volunteers

**10**

$$(15 \div 3) \times 6 = \$30$$

**11**

$$150 - (14 \times 9) = \$24$$

**12**

$$450 - (15 \times 25) = 75$$

miles

# MAD NUMBERS

Complete each multi-step word problem with numbers that make sense to the problem, and then solve.

# TEACHER SUGGESTIONS

## MAD NUMBERS

- In this activity students are asked to complete each word problem by inserting numbers that make sense in the blank then solve.
- This activity can be used in a variety of ways:
  - ✓ Small group with teacher guidance
  - ✓ A partner activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Word Problem Cards
  - Recording Sheet
- #### Not Included:
- Pencil
  - Answer Key

1

Helen's mom had twins yesterday. One baby weighed \_\_\_ lbs and \_\_\_ oz. The second baby weighed \_\_\_ lbs and \_\_\_ oz. How many ounces did the twins weigh together?

2

Rider is collecting eggs from the hens his family raises. She collects \_\_\_ eggs from one hen house, \_\_\_ eggs from the second hen house, and \_\_\_ eggs from the last hen house. How many dozen eggs did she collect?

3

Addie is buying bottles of water. She buys \_\_\_ cases of \_\_\_ bottles each and \_\_\_ cases of \_\_\_ bottles each. How many water bottles did Addie buy?

4

Natalie is counting players in a basketball tournament. There are \_\_\_ players on the court for each team at a time. If there are \_\_\_ teams in the tournament, how many players are there?

5

Michelle is getting ready for a school dance. She spends \_\_\_ minutes doing her hair, \_\_\_ minutes on make up, and twice as long getting dressed as doing her hair. How long did it take her to get ready?

6

Brandon is buying crown molding for his bedroom. His bedroom is \_\_\_ feet long and \_\_\_ feet wide. If the crown molding costs \$\_\_\_ per foot, how much will he spend on the crown molding for his bedroom?

7

Kathy went on a road trip with her friend. The first day they drove \_\_\_ miles. The second day they drove \_\_\_ miles, and the third day they drove the last \_\_\_ miles. What is the average number of miles they drove each day?

8

Mary is planting a garden. One part of her garden is \_\_\_ feet long and \_\_\_ feet wide. The other part is \_\_\_ feet long and \_\_\_ feet wide. What is the total area of the garden?



Name \_\_\_\_\_

# \_\_\_\_\_

Date \_\_\_\_\_

# MAD NUMBERS RESPONSE SHEET (1/2)

Complete each multi-step word problem with numbers that make sense to the problem, and then solve.

1

2

3

4

Name \_\_\_\_\_

# \_\_\_\_\_

Date \_\_\_\_\_

# MAD NUMBERS RESPONSE SHEET (2/2)

Complete each multi-step word problem with numbers that make sense to the problem, and then solve.

5

6

7

8

# TIC TAC TOE

Solve the multi-step word problems to win a game of tic tac toe against a partner.

# TEACHER SUGGESTIONS

## TIC TAC TOE

- In this activity students are asked to play a game of tic tac toe with multi-step word problems.
- This activity can be used in a variety of ways
  - ✓ Small group with teacher guidance
  - ✓ A warmer activity for practice
  - ✓ Independently to assess

### Materials

#### Included:

- Tic Tac Toe Board with Multi-Step Word Problems

#### Not Included:

- Pencil

Partner #1 \_\_\_\_\_ Partner #2 \_\_\_\_\_

# MULTI-STEP PROBLEM TIC TAC TOE

Solve the multi-step word problems to win a game of tic tac toe against a partner.

Robert is playing video games. He plays one game for 127 minutes and another game for 97 minutes. How many hours and minutes did Robert play video games for?

Kelly is counting the feathers on a chick. He counts 231 total feathers. If each wing has 57 feathers, how many feathers are on the body of the chick?

Lauren is trying to buy tickets for an upcoming race. She can buy individual day passes for \$89 each or a 3-day package for \$225. How much money will she save buying the package?

Mia is buying new school clothes. She spent half of her money on a pair of jeans, \$10 on a shirt, and \$4 on a new headband. If she left the store with \$9, how much money did she start with?

Andy plans to read two books in the next week. The first book is 156 pages and the second book is 122 pages long. If she plans to read the same number of pages each day, how many pages does she need to read each day?

Jacob is counting the legs in a barn yard. There are 3 people, 7 sheep, 4 cows, 12 chickens, and a cat. How many legs should he count?

Nate is trying to figure out the average age of the students in his class. Of the 20 total students, 10 are 9 years old, 9 are ten years old, and one is 11 years old. What is the average age of a student in Nate's class rounded to the nearest whole number?

Sam is trying to fix up his paper before he turns it in. He makes 3 revisions per minute for 20 minutes. He also makes 15 edits. How many changes did Sam make?

Val is picking flowers from her backyard. She finds thirteen flowers with four petals each and 70 flowers with three petals each. How many petals are on all the flowers Val picked?

# TIC TAC TOE ANSWER KEY

3 hours  
and 44  
minutes

117  
feathers

\$2

\$50

54 pages

78 legs

about 10  
years old

75  
changes

262 flower  
petals

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# TEST BRIDGE QUESTIONS

1. Peter ordered 24 boxes of clay. Each box has 16 individual packages of clay. Peter used 8 of these packages for a project. Which equation can be used to find  $p$ , the total number of packages of clay that Peter did not use?

- a.  $p = (24 + 16) - 8$
- b.  $p = (24 \times 16) - 8$
- c.  $p = (24 - 16) \div 8$
- d.  $p = (24 \times 16) \div 8$

3. Nina has 124 crayons.

-She used 20 crayons to create a sculpture.

-She used the rest of the crayons to melt down into 4 giant crayons.

-She used the same number of crayons to make each giant crayon.

Which equation can be used to find  $n$ , the number of crayons she used to make each giant crayon?

- a.  $(124 - 20) \times 4 = n$
- b.  $(124 - 20) \div 4 = n$
- c.  $(124 - 20) \times 4 = n$
- d.  $(124 + 20) \div 4 = n$

2. Angie is buying cookies for a party. There will be 13 adults and 17 children at the party. She plans to have 3 cookies for each adult and 1 cookie for each child. There are 8 cookies in each package. What is the least number of packages of cookies Angie will need to buy in order to have enough cookies for the people attending the party?

- a. 7, because  $(13 \times 3 + 17) \div 8 = 7$
- b. 28, because  $(13 \times 17 + 3) \div 8 = 28$
- c. 80, because  $(13 + 17) \times 8 \div 3 = 80$
- d. 8, because  $(13 + 17 \times 3) \div 8 = 8$

4. The temperature in Austin was 45 degrees Fahrenheit at 7 a.m. For the next five hours the temperature decreased 5 degrees each hour. What equation can be used to find  $t$ , the temperature at 11 p.m.?

- a.  $t = 45 - 5(11 - 7)$
- b.  $t = 45 - 5(11 + 7)$
- c.  $t = 45 \div 5(11 - 7)$
- d.  $t = 45 + 5(11 - 7)$

# TEST BRIDGE ANSWER KEY

1. Peter ordered 24 boxes of clay. Each box has 16 individual packages of clay. Peter used 8 of these packages for a project. Which equation can be used to find  $p$ , the total number of packages of clay that Peter did not use?

- a.  $p = (24 + 16) - 8$
- b.  $p = (24 \times 16) - 8$
- c.  $p = (24 - 16) \div 8$
- d.  $p = (24 \times 16) \div 8$

3. Nina has 124 crayons.

-She used 20 crayons to create a sculpture.

-She used the rest of the crayons to melt down into 4 giant crayons.

-She used the same number of crayons to make each giant crayon.

Which equation can be used to find  $n$ , the number of crayons she used to make each poster?

- a.  $(124 - 20) \times 4 = n$
- b.  $(124 - 20) \div 4 = n$
- c.  $(124 - 20) \div 4 = n$
- d.  $(124 + 20) \div 4 = n$

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- a.  $t = 45 - 5(11 - 7)$
- b.  $t = 45 - 5(11 + 7)$
- c.  $t = 45 \div 5(11 - 7)$
- d.  $t = 45 + 5(11 - 7)$



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