

Math Word Problems Board Game Final Project



Table of Contents

Teacher Directions.....	3
Student Directions.....	4
Student Materials.....	6

Teacher Directions

Materials for students

20 index cards for each student

File folder for each student

Copies of rubric (one for each student)

Directions

See the student directions below.



Scaffold as necessary by making fill-in, printable worksheets.

Technology Extension

Have students create their board games/word problems in MS Word/OfficeWriter.

Have students choose their own clipart and create own math board games.

Student Directions

What You Need to Do	Example
<p>1. Theme: Create a theme for your board game (sports, ocean, etc....)</p>	
<p>2. Word Problem Cards</p> <p>You will need to have:</p> <ul style="list-style-type: none">• 5 addition word problems• 5 subtraction word problems• 5 multiplication word problems• 5 division word problems. <p>You must write these, in your BEST handwriting, on index cards</p>	
<p>3. Game Board</p> <p>Design a colorful, neat chart or game board with a "Start" to "Finish"</p>	

What You Need to Do

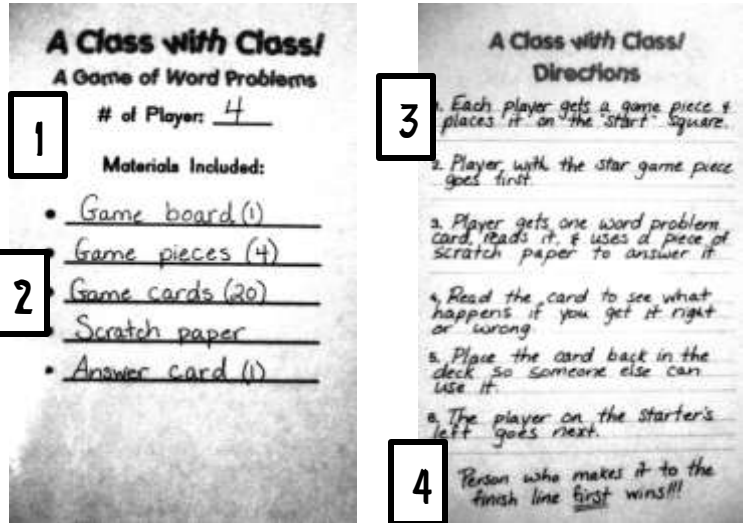
Example

4. Game Directions

Clear step-by-step directions on how to play the game.

They must include:

1. Number of Players
2. Materials included
3. Step-by-step directions
4. How the player wins
5. Answer Key

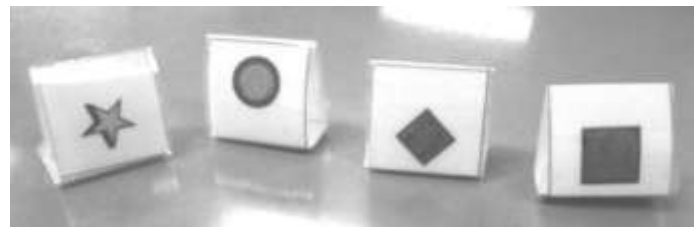


5

Card No.	Answer	Card No.	Answer
1	11	11	20
2	9	12	18
3	17	13	8
4	13	14	30
5	19	15	14
6	17	16	4
7	23	17	5
8	31	18	5
9	45	19	3
10	26	20	6

5. Game Pieces

Choose or create dice, pennies, rocks, paper pieces, tokens, etc.... that fit your theme.



6. Game Packaging

You will need something to put your game in.

Student Materials

How to Write a Word Problem.....	7
Word Problems Frames Examples.....	11
Game Directions Template.....	12
Word Problems Rough Draft.....	11
Word Problems Rough Draft Example....	17
Rubric.....	18

How to Write a Word Problem

1. Write an equation first.

2. Decide on characters and what they have or need.

For an **addition** word problem:

Choose Person 1 and a Thing (ex. Dan/gum)

Dan has 5 pieces of gum. He gets 6 more pieces. How many pieces of gum does he have all together?

$$5+6= 11$$

For a **subtraction** word problem:

Choose Person 1, Person 2, and a Thing
(ex. Jenny, Amy, stickers)

Jenny has 12 stickers. She gives 3 to Amy. How many stickers does she have left?

$$12-3= 9$$

For a **multiplication** word problem:

Choose Thing 1, Thing 2 (ex. cars/tires)

There are 3 cars. Each car has 4 tires. How many tires are there in all?

$$3 \times 4 = 12$$

For a **division** word problem:

Choose Person 1, Thing 1,
Something to put Thing 1 into. (ex. Sally,
seashells, baskets)

Sally has 24 seashells and 4 baskets. How many seashells can go in each basket?

$$24 \div 4 = 6$$

3. Decide on what math words you will use in your word problem:

Addition: in all, altogether, sum, how many, total number

Subtraction: left over, difference, fewer, how many more, how much more, left, remains

Multiplication: times, every, each, multiplied, product, in all

Division: divided into, each, equal groups, per

4. Create your word problems!

Here are some word problem fill-ins you can use.

Addition

_____ has _____
Person I #a Things Person I #b

more _____. How many _____ does _____ have
 Things Things Person I

all together?

Person I		#a	
#b		Things	

Subtraction

_____ has _____ . _____ gives _____
Person 1 #a Things Person 1 #b

_____ to _____. How many _____ does
Things Person 2 Things

_____ have left?
Person 1

Person 1		#a	
#b		Things	
Person 2			

Multiplication

There are _____ . Each _____ has _____
 #a Thing 1 Thing 1 #b

_____ . How many _____ are there all together?
Thing 2 Thing 2

Thing 1		#a	
#b		Thing 2	

Word Problem Frames Examples

Addition

1. Rob has 5 robots. Rob gets 6 more robots. How many robots does Rob have altogether?

Subtraction

1. George has 12 hamburgers. George gives Mitch 6 hamburgers. How many hamburgers does George have left?

Multiplication

1. There are 3 circles. Each circle has 6 dots. How many dots are there all together?

Division

1. David has 24 gumballs and 6 jars. How many gumballs can go into each jar equally?

Game Directions: How to Play

Title of Your Game: _____ # of Players: _____

Materials Included:

- _____
- _____
- _____
- _____
- _____

Directions

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

How to Win:

Word Problems Rough Draft

Name: _____

Addition

1. _____

2. _____

3. _____

4. _____

5. _____

Subtraction

1. _____

2. _____

3. _____

4. _____

5. _____

Multiplication

1. _____

2. _____

3. _____

4. _____

5. _____

Division

1. _____

2. _____

3. _____

4. _____

5. _____

Word Problems Rough Draft Example

Word Problems Rough Draft

Name: Mrs. Thompson

Addition

1. Rob has 5 robots. Rob gets 6 more robots. How many robots does Rob have altogether?
2. Carrie has 12 cats. Carrie gets 12 more cats. How many cats does Carrie have altogether?
3. Jennifer has 24 books. Jennifer gets 8 more books. How many books does she have altogether?
4. Bob has 8 computers. Bob gets 9 more computers. How many computers does he have altogether?
5. Maria has 10 hats. Maria gets 5 more hats. How many hats does she have altogether?

Subtraction

1. George has 12 hamburgers. George gives Mitch 6 hamburgers. How many hamburgers does George have left?

Jessica Thompson

Word Problem Game Board Project Grading Rubric

Objective	Points Possible	Points Earned
Theme present	5	
Addition Word Problem Cards	5	
Subtraction Word Problem Cards	5	
Multiplication Word Problem Cards	5	
Division Word Problem Cards	5	
Game Board Presentation	5	
Game Directions	5	
Answer Key	5	
Game Pieces	5	
Game Packaging	5	
Total	50	

5	4	3	2	1
<ul style="list-style-type: none"> ● Student has demonstrated a complete understanding of the objective and/or concept. ● There are no errors. 	<ul style="list-style-type: none"> ● Student has demonstrated a sufficient understanding of the objective and/or concept. ● There are very few errors. 	<ul style="list-style-type: none"> ● Student has demonstrated a fair understanding of the objective and/or concept. ● There are many common errors. 	<ul style="list-style-type: none"> ● Student has demonstrated minimal understanding of the objective and/or concept. ● There are numerous uncommon errors. 	<ul style="list-style-type: none"> ● Student has demonstrated no understanding of the objective and/or concept. ● There are an indefinite number of errors.