

# 4th Grade

**Tenths & Hundredths Square Off**

**Materials:** Square Off game board, Square Off writing mat on a page protector, Vis-a-Vis markers, erasers for page protectors, game cards (tenths and hundredths alike).

**Directions:** Each player flips over one number card and places it on the game board in one of the two blank boxes. Each player finds the sum on his or her writing mat and reads it up for the partner to see. Both players can earn a point for each correct answer and the first person to show the right answer can get an extra point. If you create an improper fraction (such as  $3 \frac{1}{5}$ ), you can earn another extra point by changing it to a mixed number (such as  $1 \frac{2}{5}$ ) or keep playing until time is up. The person with the most points wins!

**Challenge:** Use two colors of the game board and have each player flip over two number cards to fit in the blank boxes on his or her own board. Complete against one another to add your fractions first. Be sure to check each other's answers before erasing yours! You can earn an extra point for any fractions you are able to simplify, such as  $90/100$  to  $9/10$ .

**Math Talk:**

- How can fractions with unlike denominators be equivalent?
- What strategy did you use for adding fractions with unlike denominators?
- What patterns did you notice with equivalent tenths and hundredths?
- How would you explain the steps for adding tenths and hundredths in your own words?

**Standard decimal notation for fractions, and compare decimal fractions.**

Express a fraction with denominator 10 as an equivalent fraction with denominator 100. (e.g.,  $\frac{6}{10} = \frac{60}{100}$ ) Represent an addition or subtraction problem with two fractions with unlike denominators  $\frac{10}{100}$  and  $\frac{100}{100}$  and recognize a fraction with a denominator of 10 as a fraction with a denominator of 100. (e.g.,  $\frac{6}{10} = \frac{60}{100}$ ) Explain that two fractions with unlike denominators can be equivalent and compare two fractions with denominators 10 and 100 by renaming tenths as hundredths.

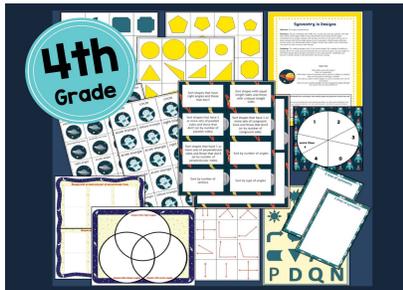
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# FRACTIONS & DECIMALS

## 14 math partner games

by Angela Watson

# Check out the complete product line for 4<sup>th</sup> grade math!

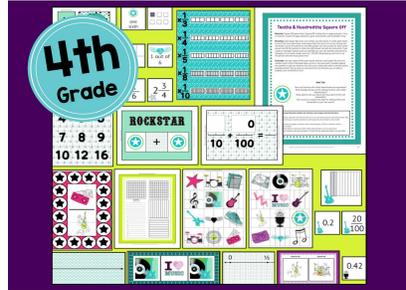


4th Grade

**GEOMETRY**  
8 math partner games

*by Angela Watson*

This image shows a collection of colorful geometric shapes, including circles, triangles, and squares, along with various math worksheets and partner game cards. A Venn diagram is also visible among the materials.

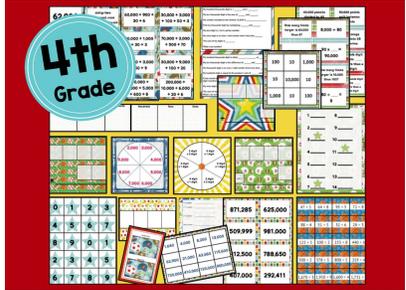


4th Grade

**FRACTIONS & DECIMALS**  
14 math partner games

*by Angela Watson*

This image displays a variety of math worksheets and partner game cards related to fractions and decimals. It includes a number line, a fraction bar, and several math problems involving addition and subtraction of fractions and decimals.



4th Grade

**NUMBER & OPERATIONS IN BASE TEN**  
14 place value partner games

*by Angela Watson*

This image shows a collection of math worksheets and partner game cards focusing on place value. It includes a place value chart, a number line, and several math problems involving addition and subtraction of large numbers.

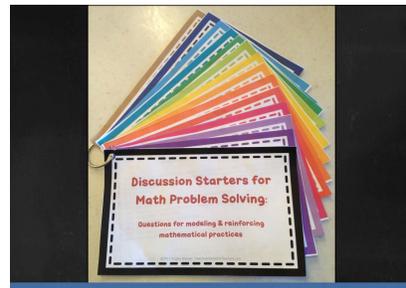


4th Grade

**OPERATIONS & ALGEBRAIC THINKING**  
7 math partner games

*by Angela Watson*

This image displays a collection of math worksheets and partner game cards related to operations and algebraic thinking. It includes a number line, a multiplication table, and several math problems involving multiplication and division.



**DISCUSSION STARTERS**  
for math problem solving

*by Angela Watson*

This image shows a stack of colorful cards with discussion starters for math problem solving. The cards are arranged in a fan shape, and the top card reads "Discussion Starters for Math Problem Solving" and "Questions for modeling & reinforcing mathematical practices".



**QUESTION STEMS**  
for math practices

*by Angela Watson*

This image shows a collection of colorful circular cards with question stems for math practices. The cards are arranged in a fan shape, and the top card reads "Question Stems for Math Practices".

# Fraction Show Off

**Materials:** Number cards, fractions game cards (any except fraction pictures or mixed numbers), paper or math journals, pencils, crayons/colored pencils, fraction manipulatives (optional)

**Directions:** Put all the number cards and fraction cards in face down stacks. Flip over 1 number card for you and your partner to share. Then have each player take 5 fraction cards. Each player chooses one of his or her fraction cards to multiply by the number card, and draws a picture (or uses manipulatives) to make a model that represents the product. Then have your partner look at the 5 cards you had and try to guess which card you used when multiplying. Your partner should write an equation to represent the problem AND write a number sentence showing multiplication as repeated addition (i.e.,  $\frac{1}{4} \times 5 = 5/4$ .  $5/4 = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ .)

**Challenge:** Play the game again and include other operations. Your partner must guess if you added, subtracted, or multiplied. You could also try to replace improper fractions with a mixed number. Can you create a word problem for your fraction? Challenge your partner to solve it!

## Math Talk:



How did you decide which fraction card to use when multiplying?  
Are there some fractions that are harder to multiply? Why?  
What strategies helped you determine which fraction your partner multiplied?  
How did using repeated addition help you guess and solve?  
How is multiplication of fractions related to repeated addition?

### CCSS: Build fractions from unit fractions.

[4.NF.B.4](#) Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.

[4.NF.B.4a](#) Understand a fraction  $a/b$  as a multiple of  $1/b$ .

I can use fraction models to show multiplication of fractions as repeated addition.  
I can multiply fractions by a whole number using models.

[4.NF.B.4b](#) Understand a multiple of  $a/b$  as a multiple of  $1/b$ , and use this understanding to multiply a fraction by a whole number.

I can name multiples of a fraction with a model.  
I can multiply a fraction by a whole number.



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## List of Games and Skills Covered

Pg.	Game Title	Key Skills	CCSS
20	Shade It In	Equivalent fractions	<a href="#">4.NF.A.1</a>
21	Fraction Go Fish	Equivalent fractions	<a href="#">4.NF.A.1</a>
22	Fraction Action	Comparing fractions	<a href="#">4.NF.A.2</a>
23	Fractions on the Line	Using benchmark fractions, comparing fractions on a number line	<a href="#">4.NF.A.2</a>
24	Build and Decompose	Using models to add and subtract fractions	<a href="#">4.NF.B.3</a>
25	Fraction Flip	Using models to add and subtract mixed numbers	<a href="#">4.NF.B.3</a>
26	Fraction Show Off	Using models and repeated addition to multiply a fraction times a whole number	<a href="#">4.NF.B.4</a>
27	Fraction Multiplication Race	Using models and repeated addition to multiply a fraction times a whole number	<a href="#">4.NF.B.4</a>
28	Tenths and Hundredths Concentration	Equivalent fractions with denominators of 10 and 100	<a href="#">4.NF.C.5</a>
29	Tenths and Hundredths Square Off	Adding and subtracting fractions with denominators of 10 and 100	<a href="#">4.NF.C.5</a>
30	Decimal Fraction Matchin'	Equivalent fractions and decimals	<a href="#">4.NF.C.6</a>
31	Race to the Whole	Representing fractions as decimals and decimals as fractions	<a href="#">4.NF.C.6</a>
32	Decimal Battle	Comparing decimals	<a href="#">4.NF.C.7</a>
33	Decimal Mix Up	Comparing decimals	<a href="#">4.NF.C.7</a>

## Notes About Materials Needed

**Unless otherwise specified, you can use ANY of the game cards for any game.**

A wide variety of cards are provided: fractions, fraction words, written parts of a whole/set, fraction pictures parts of a whole, fraction pictures parts of set, and even mixed numbers for an optional challenge. The type(s) of cards used will allow you to differentiate practice and allow students to construct knowledge in different ways.

There are also optional card organizers and work mats to help students keep their materials organized during game play.

**Be sure to print the game cards on stock paper or mount them on construction paper so students can't see through them!**

**The only items you need to supply in addition to the printables from this packet are:**

- Class set of fraction manipulatives (such as fraction bars or strips—you can print and download these free in many places online, such as [here](#))
- Class set of page protectors (or you can laminate items)
- Class set of Vis-à-Vis (or dry erase) markers for writing on page protectors
- Class set of felt squares, socks, or other “erasers” for page protectors
- Class set of pencils, crayons/colored pencils, and paper or math journals (or use individual dry erase boards)
- Half class set of [clear spinner overlays](#), or paperclips to make your own spinners ([directions here](#)).

## Game Assembly Instructions

Pg	Game	Materials	Instructions
20	Shade It In	2 Shade It In game boards in plastic page protectors, dry erase markers, felt squares or other erasers, fractions spinner (large or small)	Print pgs 56-57, and 71 or 72. Make spinners. Place game boards in page protectors.
21	Fraction Go Fish	Fraction game cards (any)	Print any pgs 35-44.
22	Fraction Action	Number cards, Fraction Action game board, blank paper or math journals, fraction manipulatives (optional)	Print pgs 34 and 58.
23	Fractions on the Line	Fraction Reaction number line (labeled 0, $\frac{1}{2}$ , and 1), fraction game cards (any except mixed numbers), blank number line (optional for the Challenge activity)	Print any of pgs 35-44. Print pgs 59-63. Assemble the number line(s) by taping the pages together.
24	Build and Decompose	Fraction game cards (any except mixed numbers), fraction manipulatives	Print any of pgs 35-44.
25	Fraction Flip	Fraction Flip game board, fraction game cards (mixed numbers only), fraction manipulatives, paper and pencils	Print pgs 45-46 and 64.
26	Fraction Show Off	Number cards, fractions game cards (any except fraction pictures and mixed numbers), paper or math journals, pencils, crayons/colored pencils, fraction manipulatives (optional)	Print pgs 34-40.
27	Fraction Multiplication Race	Number cards, Fraction Multiplication game board for each player in a page protector, Vis-à-vis markers, eraser for page protector	Print pgs 24 and 65. Place each game board in a plastic page protector.
28	Tenths & Hundredths Concentration	Tenths and hundredths game cards	Print pgs 47-49.
29	Tenths and Hundredths Square Off	Square Off game board (use either or both), Square Off writing mats in page protectors, Vis-à-vis markers, erasers for page protectors, number cards	Print pgs 34 and 66-67. Place each writing mat in a plastic page protector.
30	Decimal Fraction Matchin'	Tenths and hundredths cards, decimals cards	Print pgs 47-51.
31	Race to the Whole	2 Race to Whole game boards in page protectors, Vis-à-vis markers, erasers for page protectors, decimal cards	Print pgs 50-51 and 68-69. Place each game board in a plastic page protector.
32	Decimal Battle	Tenths and hundredths cards, decimals cards	Print pgs 47-51.
33	Decimal Mix Up	Two Decimal Mix Up game boards, two sets of Decimal Mix Up cards (a greater than/less than sign and equal sign for each player), decimal game cards	Print pgs 50-51 and 70-71.

# Math Partner Games: 4th Grade Fractions & Decimals

## 14 Common Core-aligned fraction and decimal games with Math Talk question prompts

### How do math partner games align with CCSS?

The games in this PDF were created for (not retro-fitted to) the Common Core State Standards (CCSS) for fourth grade math. There are 1-2 games for each of the fractions standards. The table on page 15 shows you which standard(s) are addressed in each game.

The standards as well as “I Can” statements with child-friendly language are included in each game’s instructions. Since there isn’t one set of “I Can” statements that all states use, I’ve chosen terminology that I think is simple and easy for you to make sense of.

Additionally, the “Model and reinforce mathematical practices” domain of the CCSS is integrated in each and every game through the actual game play, the “math talk” discussion/reflection prompts, or both. (You can find [more math talk questions here](#).) The standards for math practices are:

- MP1 Make sense of problems and persevere in solving them.
- MP2 Reason abstractly and quantitatively.
- MP3 Construct viable arguments and critique the reasoning of others.
- MP4 Model with mathematics.
- MP5 Use appropriate tools strategically.
- MP6 Attend to precision.
- MP7 Look for and make use of structure.
- MP8 Look for and express regularity in repeated reasoning.

### **What's a math partner game?**

Similar to math tubs, the math partner games I use are two-player games that reinforce a variety of math skills, including problem solving and logical thinking. The games are open-ended and easily differentiated and individualized.

### **Are math partner games the same as math centers?**

It depends on your definition. Typically in my classroom, partner game time is separate from center time because centers are independent activities while math games are multi-player and encourage discussion and collaborative problem solving. However, if you have students complete math centers cooperatively, then math partner games would be a perfect fit!

There IS one major difference between the partner game arrangement I describe here and typical centers. When kids are in centers, usually you the teacher are working with a small group. Since you're busy teaching, it's hard to tell whether the rest of the class is actually learning anything in their centers and games or if they've just mastered the art of looking busy.

During the math partner game set up I recommend here, you are *not* responsible for small group instruction, so you're free to facilitate students' thinking and engage kids in conversations about what they're learning.

### **What are the advantages of using math partner games?**

Math partner games are a great opportunity for the teacher to:

- Take anecdotal notes and/or assess children in meaningful scenarios
- Support students who are struggling academically as well as socially, because you'll have the time to help solve disputes and model social problem solving skills
- Challenge high-achievers who are easily bored
- Allow students to actively construct knowledge through collaborative hands-on activities
- Model logistical thinking and encourage discussion (great since connecting words and math is difficult for many students)
- Provide problem solving and math skill practice that kids really enjoy

### **How many times do kids play the same game?**

Generally, students play the same game for an entire week so that they have time to master the rules. Once they understand the basics, they really start focusing on the targeted math skills, determining patterns and strategies, and engaging in higher-level thinking discussions.

### **For how long do kids play the games?**

I prefer to have pairs of students work with each game for 7-15 minutes daily. Though some games naturally lend themselves to the shorter or longer end of that range, ten minutes is pretty optimal and a good target to aim for.

Though most of the games end only when time is up, ALL of the games are open-ended enough that students won't need to ask, "I'm done, now what should I do?" The instructions also provide a "Challenge" activity which you can have students do if they have time, or you can assign to certain students for differentiation. I usually have the class do the extra challenge for the last two or three days of the week, unless they haven't yet shown proficiency with the basic level of game play.

There are also "Math Talk" questions which you can have students reflect on in writing using math journals or other formats. Once a week (or even more often), you may want to allow several extra minutes for students to talk or write about the Math Talk questions.

### **How do I make time for math partner games?**

There are many ways to incorporate game time into your schedule. I prefer using them daily for up to 15 minutes, but I've also used them as fun math practice on Friday afternoons for about 25 minutes.

For awhile, my district required that I conduct standardized test prep/spiraling review practice with the kids for 20 minutes at the start of the math period. I chose to follow that with 10 minutes for math partner games, and then launched into my math concept/skill lesson for the day. The active, hands-on partner games were the perfect way to clear students' heads before instruction resumed.

The fact that math partner games are a great way to break up long periods of direct instruction and guided practice is increasingly important as the CCSS

moves us toward deeper study of math concepts. Many teachers now have longer math periods and are expected to spend several weeks on the same topic (whereas before, we might have only had several days per concept). Math partner games are a way to fill that extra time with meaningful opportunities for students to explore and talk about math concepts.

### How are kids paired up?

I recommend that math game partners be selected by the teacher (rather than self-selected) so that students are paired homogeneously. This is important because if you have heterogeneous pairs (mixed ability levels), the less advanced child will lose frequently and get frustrated. Kids only enjoy playing the games if they regularly experience success and feel like they have a fair shot at winning.

Another reason why I think it's better to pair kids with similar ability levels for math partner games is so that game play can be differentiated. You'll be able to spend more time supporting your struggling students since they'll be working together. And having your highest-performing kids paired together will be extremely valuable for them because they can play quickly and enjoy being challenged in a way that doesn't always happen during the average mixed-ability cooperative activity. Since most of us have students work in mixed-ability groups throughout the school day, math partner games can be a rare opportunity for students to work one-on-one with another child who's learning at a similar pace.

In addition, I think it's important to consider students' personalities when pairing. I don't like to pair kids who know each other too well because they'll play around, but if they don't like each other or are both very shy or competitive, there can be problems as well.



Pages 18 and 19 are blank partner lists which you can fill out and display so students know who their partners are. Before sending students off to play the games, I usually have the class look at the list and raise their hand if their partner is not in the room so that I can re-partner students for the day as needed.

I generally make changes to the partner list based on my observations and student input. I've found that some kids want to keep the same partner for months, but most kids want to change partners every few weeks, and I try to accommodate them either way so they enjoy the games more.

For variety, I do allow students to pick any partner they want on special occasions (short weeks, days when we have an assembly and the math block is cut short, etc.) as well as when we go back to review previously taught skills. Some kids choose to play with friends that are more or less advanced than them, and that allows them to experience the game in a different way. Interestingly, I've found that about half the students still choose their regular math game partner: the kids tend to get into certain rhythms and playing styles and enjoy the familiarity.

### **Can students choose the game they want to play?**

Yes! After 5-6 weeks (when you have introduced 5 or 6 games), you can let each set of partners choose one of the games to play, and have the class practice playing different games at the same time. I highly recommend doing that occasionally throughout the year, such as:

- ◆ Short weeks when you only have school for 2-3 days and therefore don't want to introduce a new game.
- ◆ When you want to review a variety of skills and concepts. Do two or three 10 minute sessions back to back, and let kids change their games for each session.
- ◆ When a lot of students absent: let kids pick their own partners and own games for a special treat.
- ◆ At the end of the year when you have already introduced all the games.

When students are all playing different games, you may need to have printed directions available in case kids forget the rules. You should also talk with students about what they should do if they get stuck.

### **How do I use the "Challenge" section of the games?**

You can offer the challenge as an option for students if they'd like to try it, or assign it only to certain students to differentiate game play. Another idea is to use that section after students have played the regular way several times, or later in the school year when reviewing previously taught skills.

**How do I use the “Math Talk” section of the games?**

You can teach students to talk about these questions with their partners, or ask the questions yourself as an informal assessment while observing game play. Or, use the Math Talk questions to facilitate mini-lessons and/or debriefing sessions before and after game play. The questions also work well as math journal prompts and written reflection topics.

**How do I introduce math partner games to my class?**

I strongly recommend that you model how to play the games FIRST. Introduce the games one at a time to your class, one game per week. During the modeling, you can demonstrate the basics of the game by playing against a volunteer. I used an Elmo (document camera) to help with this, placing the pieces under the Elmo so the class could see what was happening. I then guided two other volunteers as they played together for the class. This technique is a great way to model mathematical thinking and reasoning and draw attention to the math strategies you want students to use.

Right after the modeling/demonstration, release students to try playing the game with their partners. If you see a lot of kids making the same mistakes or demonstrating major misconceptions, end the game play time a little early. Talk about it afterward, and do more modeling the next day.

For younger students (and for most classes at the beginning of the year), I’d suggest modeling the game on the first *two* days students play it. The first day, your demonstration should be very in-depth and focus on what to do if kids get stuck or disagree with one another, as well as what to do when they’re finished and how to clean up the game properly. The second day’s demonstration can focus more on applying math skills and strategies. I often do two or three days of demonstrations/skill mini lessons with more complex games, even if it’s just quick refresher with two student volunteers before releasing the rest of the class to play.

**Why not have kids play all different games at once, like in math centers?**

I like having the whole class play the same game because you can conduct mini-lessons/strategy discussions around shared experiences before and after game play. Also, since students play the same game for a week, you have lots of targeted opportunities for identifying and addressing misconceptions and scaffolding student learning.

### **Could the games also be used as centers?**

Sure! Its totally your choice how to use the games—they'd work just fine in traditional centers, math tubs, math work stations, etc. You could choose to play some of the games using the system I describe here, and place the rest in centers for kids to explore independently.

### **How do I open the math partner game time?**

When you first introduce a game at the beginning of the week, you'll start your math partner game time with modeling. By mid-week, you can start the time with a mini lesson focusing on the higher-order thinking skills you want students to develop. You can pose particular scenarios that might arise during game play and have students suggest strategies for solving them, or mention a challenge that one team of students experienced the day before and have students talk about what they would do. You can also mention any classroom management issues that arose, or remind students of strategies you'd like them to use.

### **How do I close the math partner game time?**

You can end the math partner game time with a whole-class debriefing session. Students can talk about what strategies worked well and which didn't. Use the Math Talk questions provided for each game to help you facilitate the discussion. Students can also reflect on these questions in writing (i.e. in math journals), or by talking with their partner (or a different partner in a turn and talk/think-pair-share activity.)

You can switch up your approach as needed, or make a schedule and debrief in a different way each day of the week. Again, the conversations will be more superficial at the beginning of the week and will move toward critical thinking as students have more experiences with the game.

### **How do I store and organize math partner games?**

If you're using the math partner game system, you'll need to have *half* a class set of all your games. In other words, if you have 26 students, you need 13 sets of each game. The type of organizational system you choose should be based on the materials you have and the size/type of your math games. If you have lots of larger materials that you're using in addition to the games in

this PDF, you'll need to consider that in your planning. I'll share with you the systems I've used over the years, and then explain what I think is the best way to organize and distribute this particular set of fraction games.

My first year using math partner games, I simply had a milk crate full of plastic baggies with materials inside. As my collection of games grew, I started keeping the plastic baggies in plastic tubs (containers). Some were the small kind you'd find at the dollar store and some were larger like dishwashing tubs, depending on the size of the materials that went inside.



Eventually I found the toy organizer you see pictured above. (Mine was from Big Lots, but I believe you can still get something similar at Target.) I used the large, colorful bins to hold the partner games my class was currently using. There was one bin for each game, and each bin held the entire half class set of materials for that game. For most games, I had a plastic baggie or manila envelope for each pair of students, so the bin for a certain game usually had about a dozen baggies or envelopes inside. The games for units we weren't currently studying were hidden away in cabinets or other plastic containers.



I also kept one set of each game in a hanging shoe organizer, which you could see hanging on the door in the previous page's picture and as a close up above. Later in the school year, I'd allow students to choose the game they wanted to play. Each set of partners would simply walk over to the shoe organizer, pick a game and take out the materials, then return them after game play. I also allowed students to use the games in the shoe organizer at other times in the day (before and after school, during indoor recess, etc.) We called it "Free Choice Math Partner Games". I had a milk crate to hold the games that were too large to fit in the shoe organizer.

### **How do I pass out and collect the games?**

For the games in this PDF, I recommend using just one baggie for each pair of students and put *all* the fraction cards in them. There will be many times when you want kids to use multiple sets of cards during a single game, so having them altogether makes sense and saves you plastic baggies. It's not a bad idea to mark some place on each card with a symbol, color, or number to indicate which bag it came out of, in case a stray piece is found on the floor. Of course, that's bound to happen!

Each day as you begin math partner games, write on the board which cards students should take out of the baggies. They can leave the rest of the cards in the bag (or even choose to include them if they decide with their partners to make the game more challenging.)

Each set of game mats/boards/number lines could be kept in a single file folder or manila envelope: ditto with other materials needed, like the spinners. Depending on how many games you use from this PDF, that could mean between 3-10 file folders, each one holding a half class set of boards.

When you're ready for students to play a game, place the file folder full of game mats (or other materials) and the set of baggies on a table. Have all the "Partner 1s" in your math partner list (see pages 18-19) come up to the table in an orderly line and take one of everything. The Partner 2's are responsible for returning the materials to the same spot after game play.

If you practice your expectations for this, the system for distributing and collecting game materials will go very, very quickly. Sometimes it helps to set a timer for one minute: at the end of the minute, all the partner 1s should have the necessary materials and both partners everyone should be in their "spot" in the room where they play the math partner games. If there is any pair of students who has not yet begun game play when the timer goes off, you can assist them with whatever they need to get started.

### **How can I save ink, paper, and time?**

The same cards and game mats can be used for multiple games, so that helps a lot. Here are some other tips to help you save ink, paper, and time as you create the games:

✓ **Pick the games you want to use, and THEN print.** You'll probably find that there are more than enough games here and you won't have time to implement them all, so don't print anything until you're sure you'll use it.

✓ **Be selective about the game resources you print.** Some games have multiple game mats and cards that you may not need. For example, there are you may not need all the number lines that are included, or you might already have other number lines (or blank paper) for students to use. You also may not need all 6 types of fraction cards that are included (regular fractions, fraction words, parts of a whole/set, fraction pictures: parts of whole, fraction pictures: parts of a set, and mixed numbers).

✓ **Use only a digital copy of the game instruction sheets.** You can use an LCD projector with a document camera or interactive whiteboard to project the directions for the class to see if needed. But the only time you'll need a printed copy (other than possibly for yourself) is if you decide to place one copy of the game in a Free Choice Math Partner Game area like the hanging shoe organizer I described, or if you want kids to use the games in math centers/stations. In those instances, you could print a single copy of the instructions. But, for regular math partner game time, it's not necessary to print the instructions for each pair of kids. You will have already modeled game play for the class multiple times (which means they'll know the game far better than if they'd just read the directions), and you'll be walking around the room facilitating as kids play in case they need help.

✓ **Print most (or all) of the game resources in black and white and have students color them for you. Or, print onto colored paper!** Black and white copies can still be very visually appealing, and you have the option of printing onto colored stock paper or using colored pencils/markers to add interest. You may want to print your half class set in black and white, and then make one or two full color copies to use when modeling the game for the class and for later on if you place the games in your math centers or stations. You can let a different pair of students use the full color version each day as recognition of exemplary work in the previous day's math game time.

### **I'm ready! How do I get started?**

Start by figuring out which CCSS or state standards you want students to practice through the games. The table on the next page of this packet tells you which games align to each standard.

Read the instructions for the games you're interested in, and check out the game resources (game mats, cards, etc.). Decide which ones are the best fit for your students' needs, and print! Use pages 16-17 to help you assemble the games and collect any extra materials you might need.

**One final note:** I encourage you to approach the games flexibly and allow kids to suggest their own rules and adaptations. I've found that many pairs of students will create their own point systems and their own contingencies to make the game more or less competitive, based on their preferences. Give kids ownership over the games, and have fun together!



## BUT WAIT! THERE'S MORE...

I'm **Angela Watson**, the creator of this resource. I'm a National Board Certified Teacher with a masters degree in Curriculum and Instruction, and have 11 years of classroom teaching experience and over a decade of experience as an instructional coach. I currently work as a Productivity and Mindset Specialist in the area of educational consulting. In practical terms, this means I author books, design curriculum, and provide professional development services. Everything I do is centered on sharing more effective, efficient, and enjoyable ways of teaching and learning!

I founded my website ([TruthforTeachers.com](https://www.truthforteachers.com)) in 2003 to connect with other educators. You can now find thousands of ad-free articles and resources there from me and our K-12 teacher-writer's collective.

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