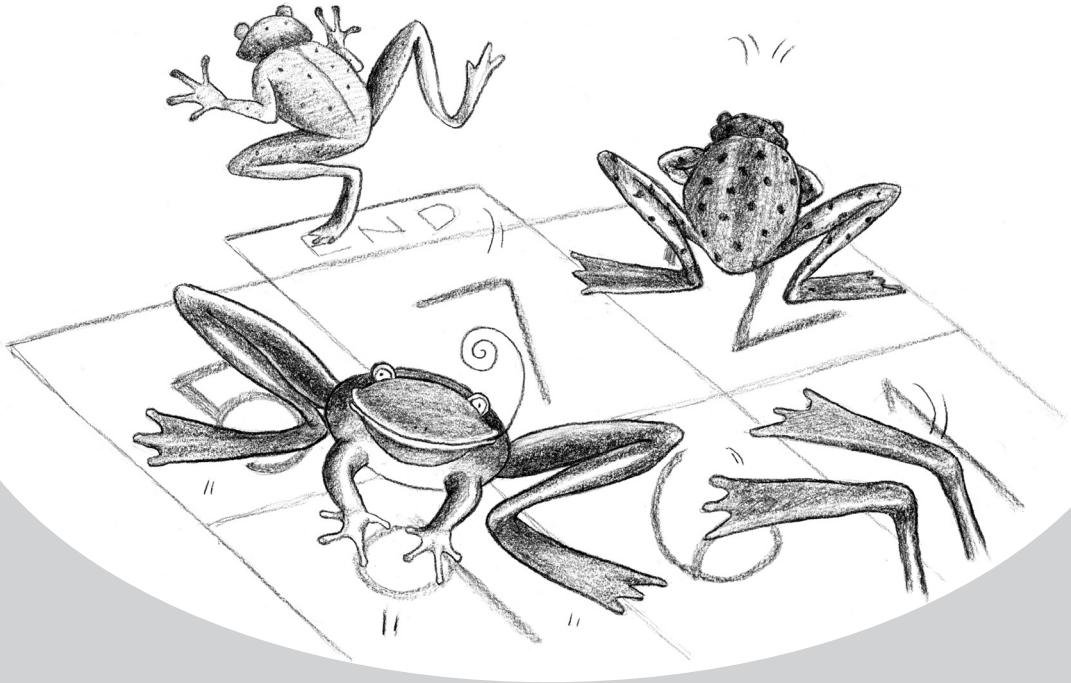
HOP OUT



GAME SUMMARY

Partners hop on two or more numbers that when added or subtracted equal a stated number from five to ten. This process is called "hopping out" a number. To play this game, you need a large space, like a gym or outdoor area.

PLAYERS: Grades 1–2, large group of ten or fewer divided into pairs

YOU'LL NEED

For each group of players:

- Sidewalk chalk or masking tape

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MATH SKILLS

- Add and subtract to ten

About the Math Skills

As the children plan with a partner to "hop out" a given number, they gain confidence and skill in mental addition and subtraction. Partners share addition and subtraction ideas and learn new number combinations from each other.

SOCIAL SKILLS

- Make a plan with a partner

About the Social Skills

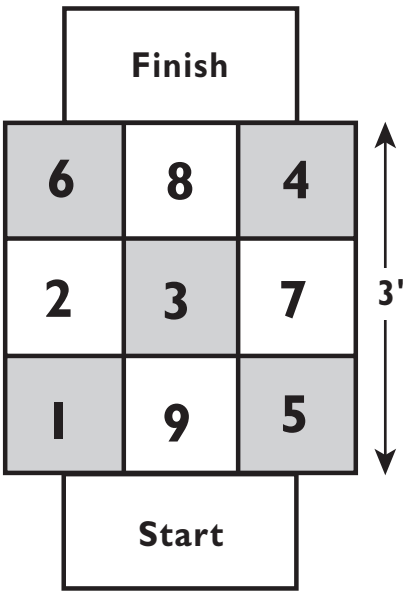
As they plan together, the children learn how to listen to a partner, compromise, and reach agreement.

TIP

- Encourage the children to use mathematics strategies that work for them and discuss the various ways children find solutions. This provides opportunities for the children to learn strategies from one another.

GET READY

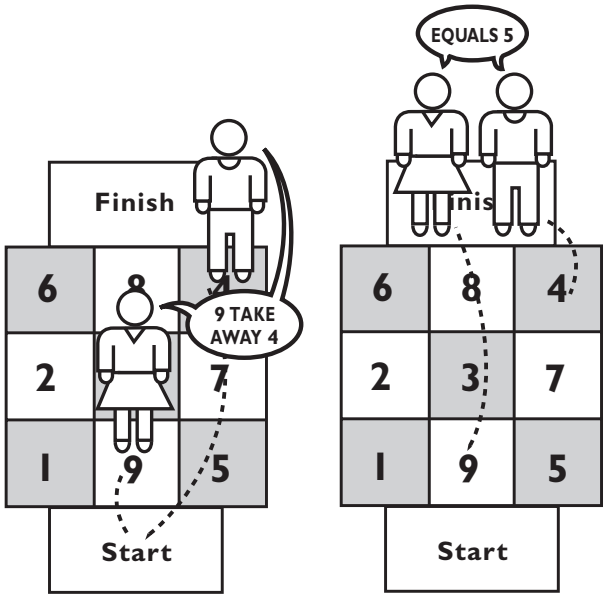
1. Read the game directions and pages 88–89 before introducing the game to the children.
2. On the ground or the floor, make a three-by-three grid with sections about one foot square using chalk or masking tape. Write the numbers one to nine in random order in the boxes. Draw a "Start" box on one end of the grid and a "Finish" box at the other end.
3. Decide how you will pair the children to play the game.



GAME DIRECTIONS

GOAL: "Hop out" a stated number from five to ten

1. The leader pairs the players.
2. The pairs stand in a line behind the start box.
3. The leader states a number (from five to ten) for all pairs to "hop out." (For example, "Hop out the number five.")
4. All pairs make plans as they wait for their turn, deciding on at least two numbers in the grid to add or subtract to make the target number.
5. When it is their turn, partners "hop out" their plan, stating their number fact. For the number five, one partner might hop from the start box to the nine, while the other hops from the start box to the four. Together, they say, "nine take away four." Then they hold hands and jump to the finish box as they say, "equals five."
6. Play continues until all pairs have "hopped out" the numbers from five to ten.



BEFORE THE GAME

1. Explain how to play the game and practice playing it as a group.

TALK ABOUT

- **What numbers are on the game board? How could you add or subtract some of these to equal five? Other ideas?**

2. Explain and practice some addition or subtraction facts where both partners hop on the same number. For example, for the number sentence 5 + 5 = 10, one can hop to the five and make a little room in the box for the second partner to hop to, or the pair can jump on the five together.
3. Encourage pairs to hop out their numbers in different ways. Demonstrate the use of three or more numbers (for example, 6 + 4 − 5 = 5). Less-skilled players may be able to make only simple number sentences.

TALK ABOUT

- **What are some ways to add and/or subtract three numbers to equal five? Other ideas?**

DURING THE GAME

1. Help the children as they play. Give pairs enough time to make and discuss their plans. Encourage them to plan while they are waiting for their turns.

TALK ABOUT

- **What's one plan to hop out this number? What's another plan?**
- **What three numbers could you use to hop out this number? How?**
- **What's a way to use both addition and subtraction to hop out this number?**

2. If a player or pair suggests a change in the rules while they are playing, allow them to discuss the change. Before changing the rule, make sure the change is fair to all players, everyone in the group agrees, and the math is still appropriate.

AFTER THE GAME

Help the children think about the math and how they played together.

TALK ABOUT

- **What are some ways we hopped out the number eight? The number nine?**
- **How did you work together with your partner to make a plan? Was it fair? Why?**
- **Did you learn any new ideas from listening to your partner's plan or another pair's plan? If yes, what did you learn?**

Changing the Game

1. To make the game less challenging:
   - Use the numbers from zero to five in the number grid. You will need to write three numbers twice. Have pairs "hop out" numbers from one to five to play the game.
2. To make the game more challenging:
   - Have pairs use multiplication, addition, and subtraction to hop out numbers from 25 to 30. (For example, for 29, pairs might hop out $(6 \times 4) + 5 = 29$.)
3. Ask the children how to play the game differently and try their ideas.