"Fair Sharing"

WATCH

On faraway Pirate Island, Peg and Cat encounter a band of unruly pirates and their cranky bird, Parrot. From tropical fruit salad to a shredded treasure map, the pirates and their feathered friend are always struggling to divide things fairly. Go online to **pbskids.org/learn** to view short video clips from *The Pirate Problem* with your group and the children will learn how they can help everyone to always get a *fair share*. It's only fair! (And lots of fun.)

PLAY

For an online adventure in "fair sharing," try *Rock Art*, where kids can practice this skill in a self-directed, free-play format. Click the "star" button at the bottom right and select the scene with Peg, Cat, and the great big pizza! Using the rocks in Peg's collection, kids can make sure that Peg and Cat each have a fair share of tasty toppings.

Kids can also have more fun on Pirate Island in *Hungry Pirates*, where Peg's swashbuckling friends are on the hunt for a buried treasure chest full of the delicious snacks you can share as a group below! This game challenges players to follow the maps and count their steps to where "X" marks the spot.

Find both games online at **pbskids.org/learn**.

EXPLORE

The hands-on activities on the following pages can be played in small or large groups to practice simple division and fractions – and they can be downloaded as PDFs from **pbskids.org/learn**:

- *Pirates' Treasure*: Children will learn to evenly distribute a set of items as they role-play finding and sharing hidden treasure.
- *Pirate Picnic*: Children will practice dividing a whole object into equal parts as they prepare a picnic for a group of hungry pirates.

SHARE

At home, kids can add a dash of math to snack-time while they work with an adult to whip up a special treat from *three kid-friendly recipes*. Following easy, step-by-step instructions and illustrations, children will practice simple division and fractions, learn about measurement and time, and find that math never tasted so good. In this resource is a Parent Letter that you can send home with each child explaining the skills they've worked on today and directing parents and caregivers to the recipe cards at **pbskids.org/learn**.

All video clips, games, and activities in this resource can be found at pbskids.org/learn

peg + cat

Dear Parent,

Today, your child practiced "fair sharing" with Peg and Cat, the problem-solving, math-loving duo from PBS KIDS. Be sure to ask your child about the game(s) we played to share a snack and buried treasure with a band of unruly pirates. When we learned about "fair sharing," we were really practicing simple division and fractions, as the children worked to evenly distribute a set of items and divide a whole object into equal parts. You can encourage your child to continue exploring these and other early math concepts online at pbskids.org.

At home, you and your family can join in the fun by making kid-friendly treats from *Peg + Cat* recipe cards. Choose from three simple recipes with step-by-step instructions and illustrations, and your child will practice simple division and fractions, learn about measurement and time, and have lots of yummy math fun. You can find instructions at pbskids.org/learn under "Fair Sharing."

Learning math skills at a young age is important, so that children can succeed in school and in life. *Peg + Cat* makes math fun! Your family can watch the show weekdays on your local public television station and anytime at pbskids.org/peg.

Estimados padres:

El día de hoy, su hijo practicó el aprender a compartir con Peg y Cat, el dúo de personajes de PBS KIDS, a quienes les fascinan las matemáticas y resolver problemas. Pregunte a su hijo sobre el (los) juego(s) que jugamos sobre compartir alimentos y enterrar un tesoro con un grupo de piratas indisciplinados. Al aprender a compartir, en realidad estuvimos practicando la división simple y las fracciones, ya que los niños trabajaron en dividir y distribuir en partes iguales un conjunto de objetos y dividir un objeto entero en partes iguales. Usted puede motivar a su hijo a que continúe explorando estos y otros conceptos básicos de matemáticas en línea en pbskids.org.

En casa, usted y su familia pueden unirse a la diversión con los platillos simples para niños utilizando las recetas de *Peg + Cat*. Elijan entre tres recetas simples con ilustraciones e instrucciones paso a paso. Al mismo tiempo, usted y su hijo estarán practicando la división simple y las fracciones, aprenderán sobre medidas y tiempo, y tendrán mucha diversión deliciosa utilizado las matemáticas. Usted puede encontrar instrucciones en pbskids.org/learn; sección "Fair Sharing."

Aprender habilidades matemáticas a una edad temprana es importante para que los niños tengan éxito en el colegio y en la vida cotidiana. ¡Peg + Cat hacen las matemáticas más divertidas! Su familia puede ver los programas de televisión en su estación de televisión pública entre semana y en cualquier momento en línea en pbskids.org/peg.

Pirates' Treasure

Children will learn to evenly distribute a set of items as they role play finding and sharing pirates' treasure.

LEARNING GOALS

- Count by ones up to 12
- Separate a set of up to 12 objects into two or three equal groups
- Practice estimating and problem solving

ITEMS NEEDED

- Sharing Stories (attached)
- 12 small objects to serve as "treasure" such as pennies, beads, or coins

GET READY

View video clips from **The Pirate Problem** with your group at **pbskids.org/learn** and review the concept of *fair sharing*: sharing a group of objects so that each person has the same number.

HAVE FUN!

1. Gather a small group of children and tell them you are going to pretend to be pirates! Select two children and tell everyone that these two pirate friends have found a buried treasure. Show them the pile of treasures, and with the children, count them one by one.

2. Oh no! There's a BIG PROBLEM! There are two pirates and 12 treasures! How can you share the treasure so that they each get the same amount – a "fair share"? Invite the children to brainstorm a solution.

3. Demonstrate fair sharing by giving one treasure to each pirate. "One for you and one for you. It's fair!"

4. Continue sharing the treasures until they have all been given out. "Two for you and two for you. Three for you and three for you."

5. Pose this question: "How many treasures did each pirate get?" Count the treasures for each pirate. Touch each treasure as you count, "One…two…three." Check to make sure each pirate received the same number.

(continued)

All video clips, games, and activities in this resource can be found at pbskids.org/learn

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Pirates' Treasure
(continued)

HAVE FUN! (cont.)

6. Summarize: "Wow! We had 12 treasures. When we shared them between two pirates, they each got six. It's fair!" You may want to count out the treasures again, to reinforce the concept.

7. Now demonstrate a scenario using more than two pirates. When there are three pirates, each get four treasures. If there are four pirates, each will get three. If there are six, each will get two. The same counting strategy ("one for you, one for you") will work regardless of how many pirates there are.

8. You may wish to use this opportunity to introduce related vocabulary. You can explain that when you "share" a group of items, you are "dividing" it into smaller groups. A "fair share" means an "equal" amount for each person.

9. Now, take out the sharing stories and invite a child pick out a story card. Read the story aloud and have the children act out the skit. Ask them to explain out loud how they are dividing up the treasure. Continue until all the cards are gone.

PROBLEM SOLVED!

When the treasures have all been shared fairly, sing the **"Problem Solved"** song!

🎵 *Problem solved! The problem is solved!*
We solved the problem! Problem solved!
🎶

ANOTHER FUN IDEA

Invite the children to make up their own sharing stories! Encourage the children with questions such as, "Where did you find the buried treasure? What is inside the treasure chest? How many pirates need to share it? How much treasure will each pirate get?" If a child creates a story problem that does not work out evenly, introduce the concept of *remainder*. Emphasize that each person must get a fair share. Whatever is left over can be put to the side.

All video clips, games, and activities in this resource can be found at pbskids.org/learn

Pirates' Treasure
(continued)

Buckler and Matey just discovered a buried treasure. Inside the treasure chest are **6** coins. Hooray!

But wait, this is a big problem! How many coins should each one get? Please help them share the coins so that they each get a fair share.

Buckler, Matey, and Graybeard found a coin purse with **6** coins. Hooray!

But wait, this is a big problem! How many coins should each one get? Please help them share the coins so that they each get a fair share.

Captain and Parrot found **8** coins buried in the sand. Hooray!

But wait, this is a big problem! How many coins should each one get? Please help them share the coins so that they each get a fair share.

X marks the spot! A treasure map led Graybeard, Buckler, and Captain to a box containing **9** coins. Hooray!

But wait, this is a big problem! How many coins should each one get? Please help them share the coins so that they each get a fair share.

Matey and Graybeard remembered that they hid **10** coins under a rock. Hooray!

But wait, this is a big problem! How many coins should each one get? Please help them share the coins so that they each get a fair share.

Parrot, Captain, and Buckler discover a shipwreck containing **12** coins. Hooray!

But wait, this is a big problem! How many coins should each one get? Please help them share the coins so that they each get a fair share.

All video clips, games, and activities in this resource can be found at pbskids.org/learn

peg+cat

Pirate Picnic

Children practice sharing a group of items and dividing a whole object into equal parts as they prepare a picnic for a group of hungry pirates.

LEARNING GOALS

- Separate a set of objects into equal groups
- Partition whole objects into equal parts
- Become familiar with simple fractions: one half, one fourth, one eighth

ITEMS NEEDED

- Tray of grapes, carrot strips, crackers or other snack food that can be equally distributed among a group of children
- One banana for every two or four children, plus one more
- Napkins or paper plates

GET READY

View *The Pirate Problem* video clip with your group at **pbskids.org/learn**, and review the concept of fair sharing: sharing one item or a group of items so that *each person* has the same number. Then invite the children to pretend to be pirates and join you for a Pirate Picnic. Have the children sit in pairs or groups of four, and ask one child to pass out napkins or paper plates. Lay out the snacks in front of the group.

HAVE FUN!

1. Start by practicing how to "fairly share" a *group* of items. Use the grapes, carrot strips, or other snack food that can be equally distributed among each group. Say, "I've gathered all my pirate friends together for a picnic, but we have a BIG PROBLEM! I have all these snacks in front of me, but your plates are empty. What should we do?" Invite the group to answer, and allow them to practice "fair sharing" the various snacks.

2. Now introduce the concept of "fair sharing" *one* item. Pick up one banana. Say, "Oh, no! We fairly shared all of the grapes, but now we have a REALLY BIG PROBLEM! I'd like each group of pirates to share a banana, but there is only *one banana* for each group! What should we do?" Invite the children to answer, and explain that in order to share the banana fairly, it must be *divided* into equal parts.

(continued)

All video clips, games, and activities in this resource can be found at pbskids.org/learn

Pirate Picnic
(continued)

HAVE FUN! (cont.)

3. Bring a group of four children to the front of the room. Suggest, "Let's try slicing this banana into equal pieces." Ask, "How many pieces will we need so that each pirate has one?"

4. Slice the banana in half. "Now I have two pieces that are the same size. Each piece is called *one half*."

5. Slice each half into two equal pieces. "Now I have four equal pieces. Each piece is called *one fourth*. There is one slice for each pirate."

6. Now ask the children how many slices of banana they will need so that each pirate has two pieces. Slice each piece one more time. Pointing to each slice with your finger, slowly count "1, 2, 3, 4… We have 8 pieces all together. Each piece is called *one eighth*."

7. Have the groups practice "fair sharing" their bananas and enjoy their snack!

PROBLEM SOLVED!

When the bananas have all been shared fairly, sing the **"Problem Solved"** song!

🎵 *Problem solved! The problem is solved!*
We solved the problem! Problem solved! 🎶

ANOTHER FUN IDEA

Use the Pirate Picnic as an opportunity to practice polite table manners and good personal hygiene skills, such as washing hands, placing napkins in the lap, serving others first, and saying "please" and "thank you."

All video clips, games, and activities in this resource can be found at pbskids.org/learn

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