

donate recycle don't throw away®



Hooray for Hand-Me-Downs!

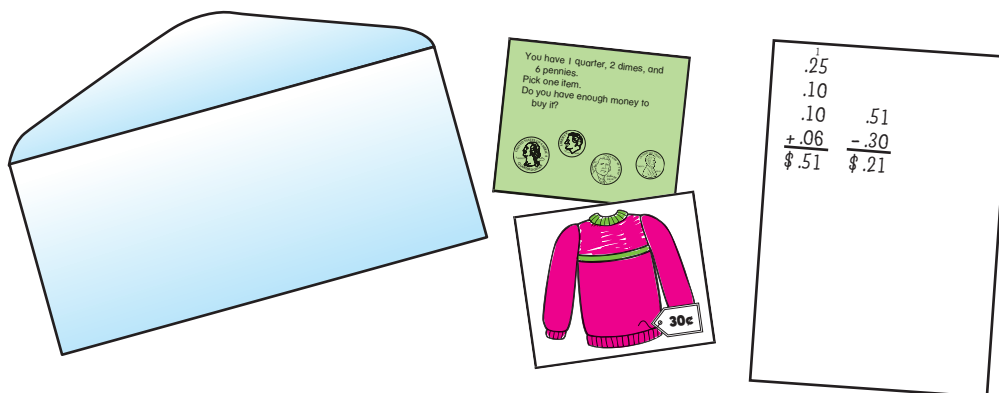
Addition to 100, word problems involving money

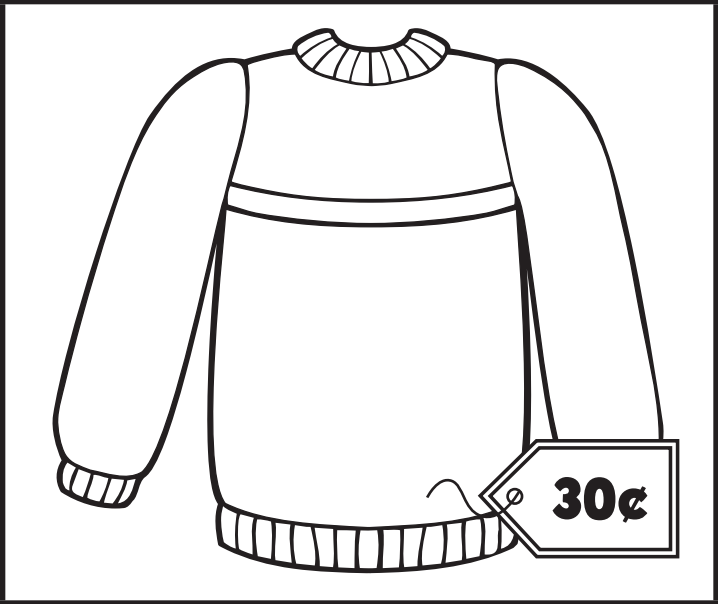
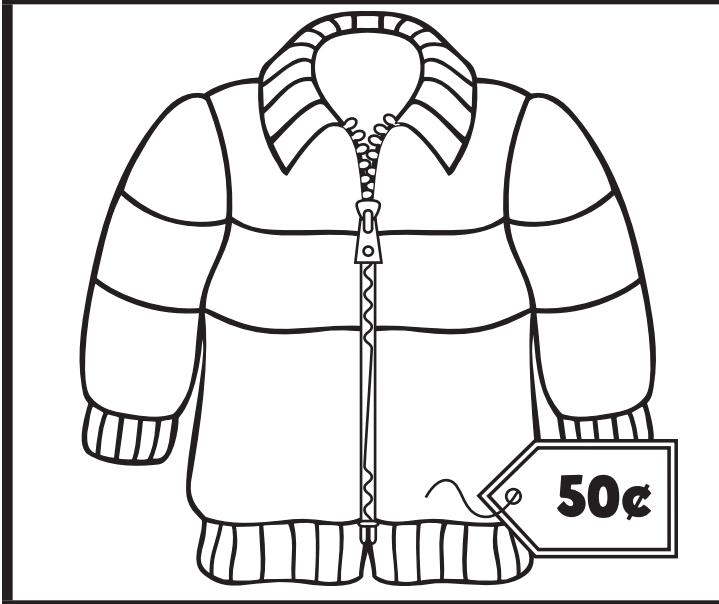
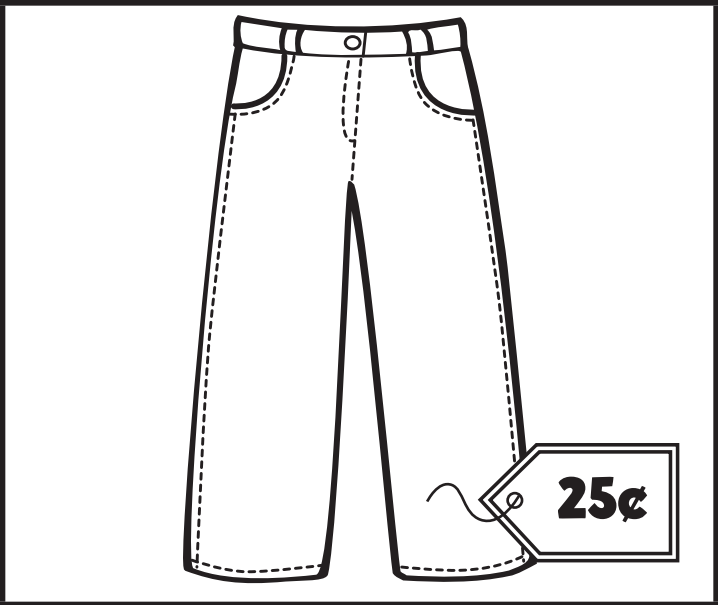
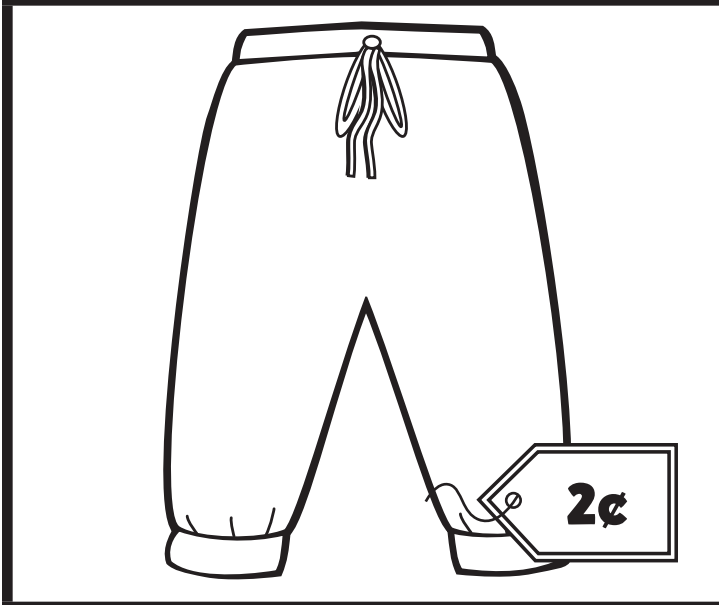
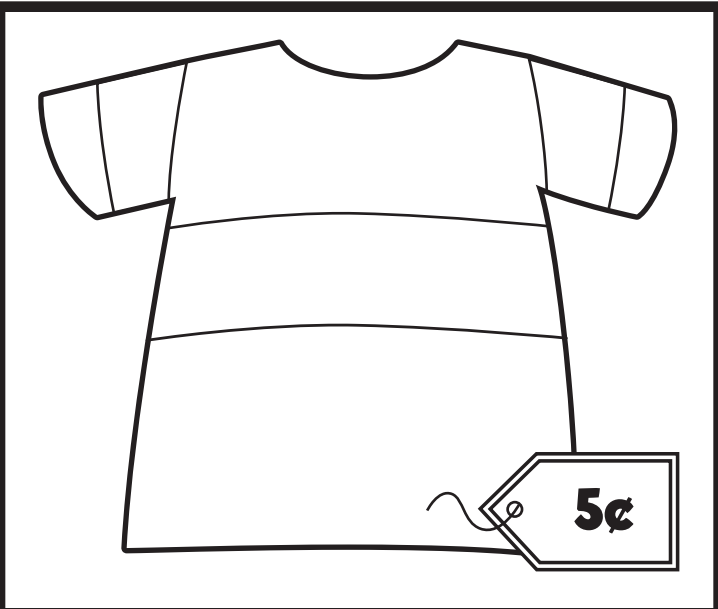
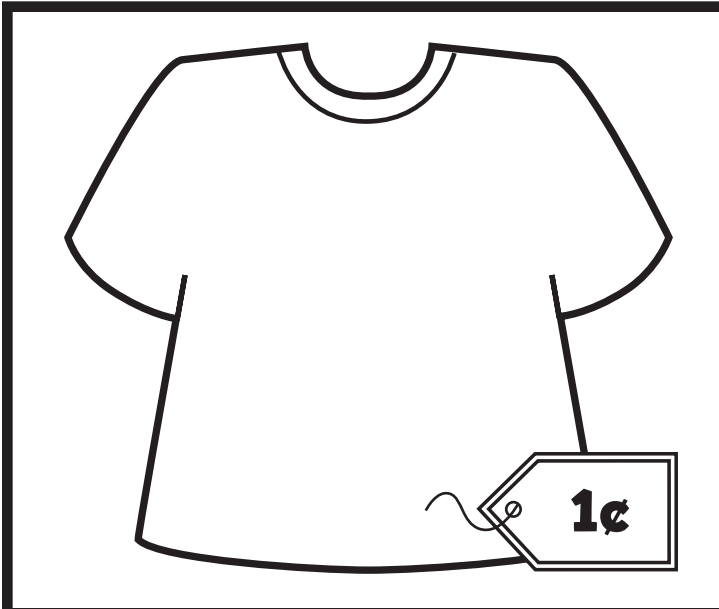
Ask your students if they're familiar with the term "hand-me-down." Explain that a hand-me-down is an item that one person uses and then gives to another to use. For example, an older child might outgrow a coat, but the family saves it for a younger child to wear later. When that child is done with it, the coat might be passed to a friend or donated to a charity. Passing on items saves money for families and keeps textiles out of landfills.

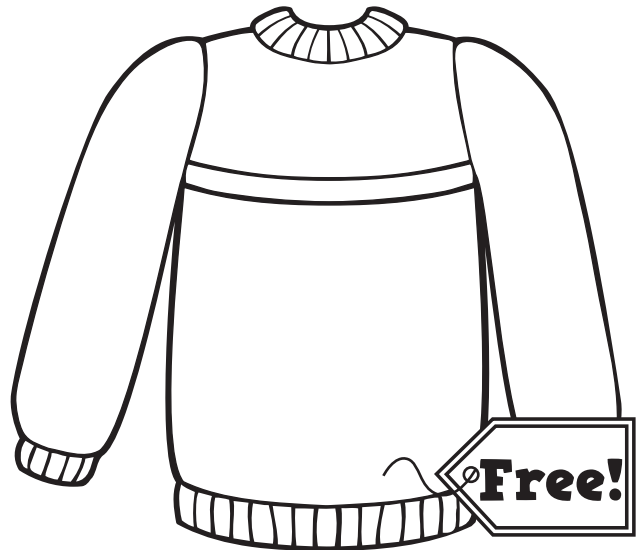
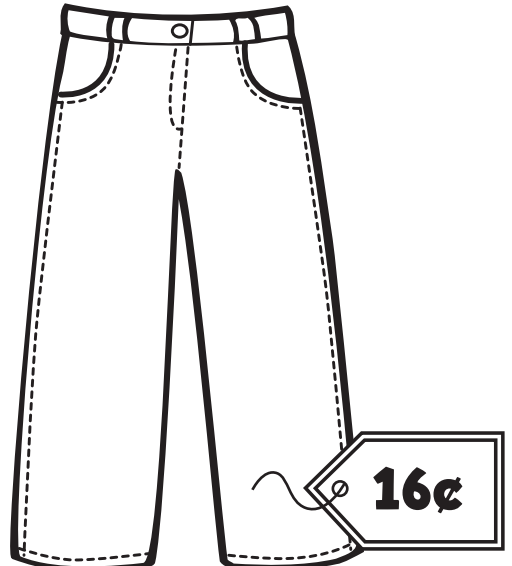
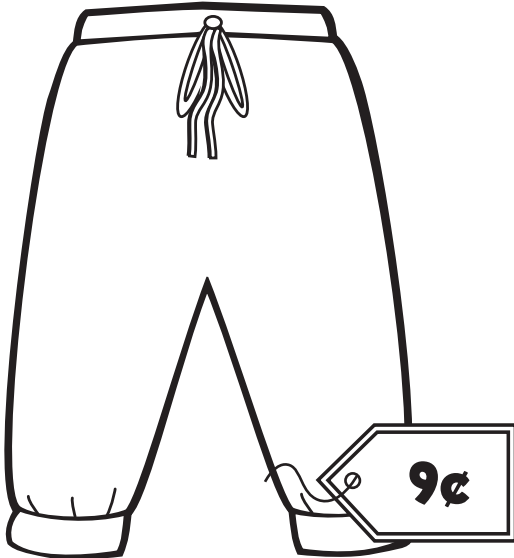
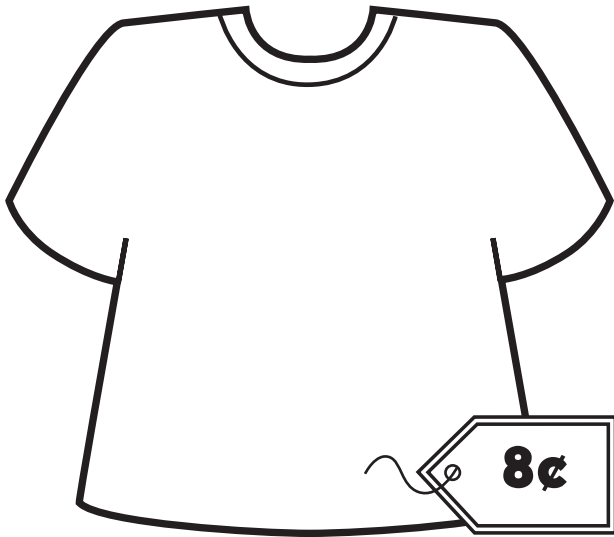
Reinforce this cost-saving message and give students practice working with word problems and money at a math center. Print the clothing patterns and word problem cards (scroll down). Invite volunteers to decorate the clothing patterns and cut them out. Place the completed clothing patterns in one envelope and the word problem cards in a second envelope.

Explain to students that as they visit the center, they'll randomly select a word problem card from the envelope and then the required number of clothing items from the other envelope. Next, they'll work the math problem on scrap paper, being sure to include dollar and cents symbols as needed. As a follow-up, discuss with students how, when they selected the "free" hand-me-downs from the envelope, their money went further. Math practice and recycling really add up!

Teacher tip: As students' math skills improve, change the price tags to reflect higher amounts. Or challenge students to write their own word problem cards to add to the center!

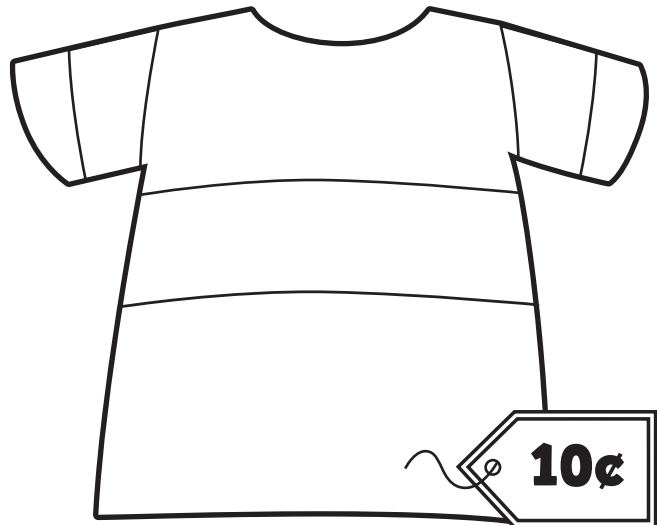




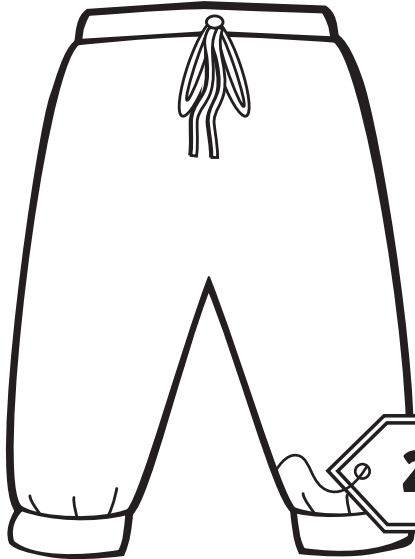




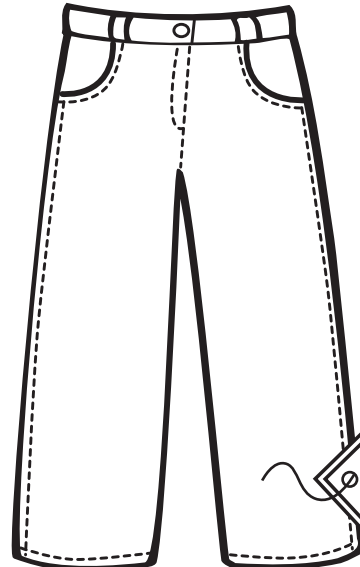
Free!



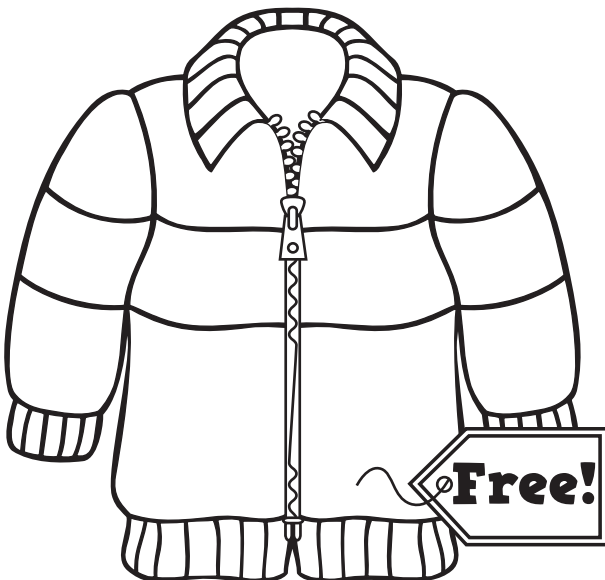
10¢



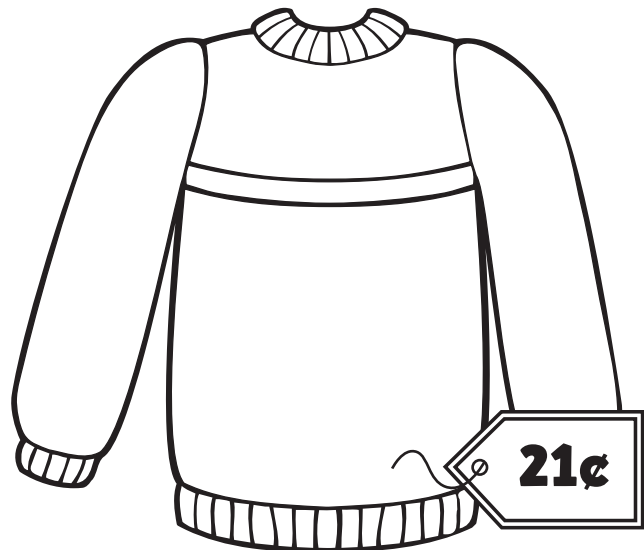
22¢



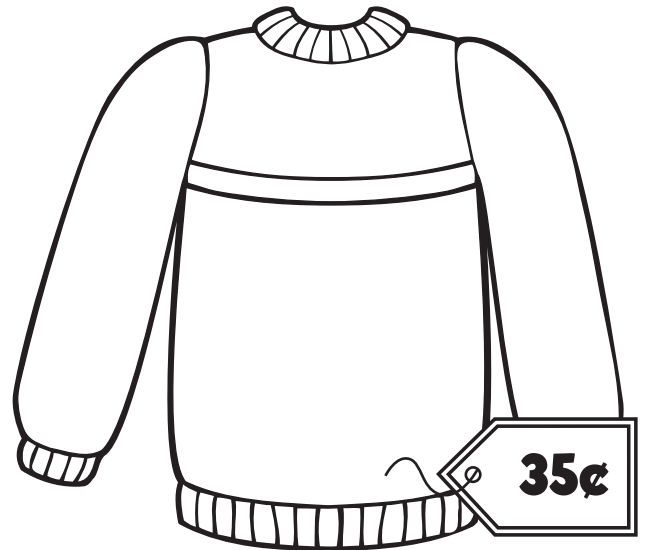
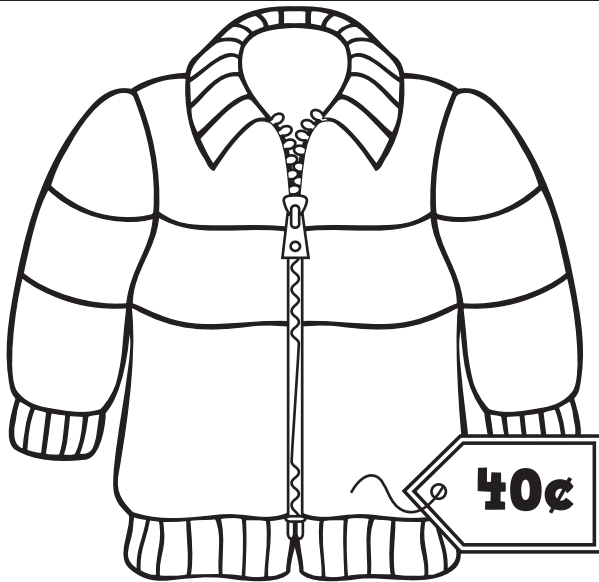
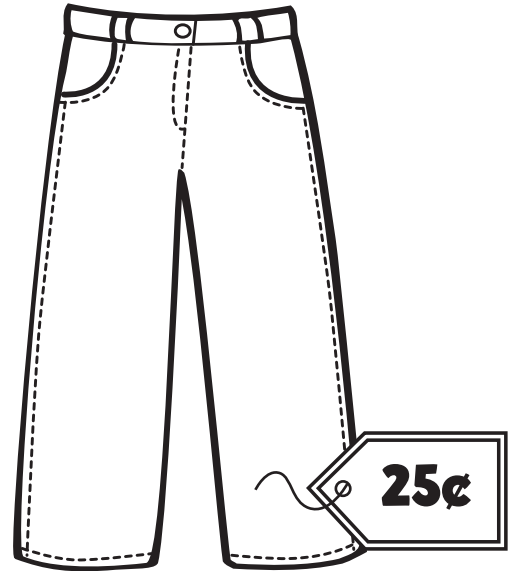
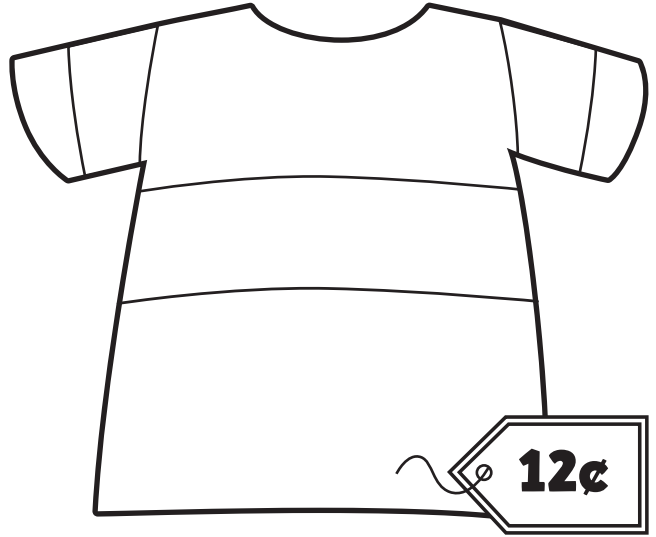
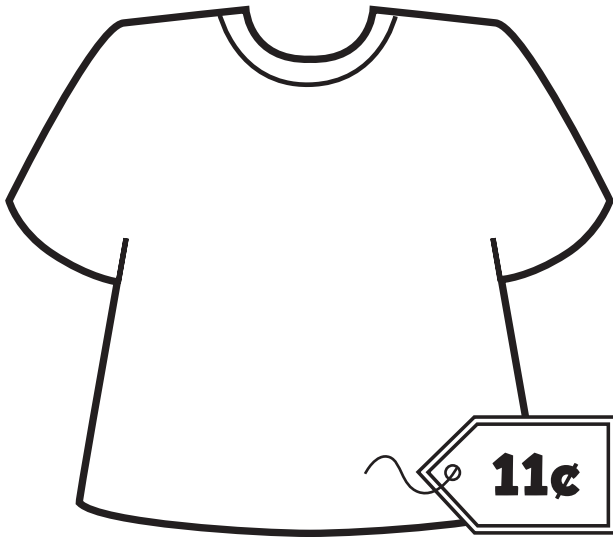
20¢



Free!



21¢



You have 1 quarter, 1 dime, and 1 penny.
Pick one item.
Do you have enough money to buy it?



You have 1 quarter, 2 dimes, and 6 pennies.
Pick one item.
Do you have enough money to buy it?



You have 1 quarter, 3 dimes, 2 nickels, and 8 pennies.
Pick one item.
Do you have enough money to buy it?



You have 2 quarters, 2 dimes, 1 nickel, and 2 pennies.
Pick one item.
Do you have enough money to buy it?



You have 2 quarters, 3 dimes, 1 nickel, and 4 pennies.
Pick one item.
Do you have enough money to buy it?



You have 1 quarter, 6 dimes, 3 nickels, and 8 pennies.
Pick one item.
Do you have enough money to buy it?



You have 1 quarter, 4 dimes, and 1 penny.
Pick two items.
Do you have enough money to buy them?



You have 1 quarter, 2 dimes, and 2 pennies.
Pick two items.
Do you have enough money to buy them?



You have 3 quarters and 2 pennies.
Pick two items.
Do you have enough money to buy them?



You have 3 quarters, 1 dime, and 4 pennies.
Pick two items.
Do you have enough money to buy them?



You have 2 quarters, 3 nickels, and 4 pennies.
Pick two items.
Do you have enough money to buy them?



You have 1 quarter, 2 dimes, 4 nickels, and 6 pennies.
Pick two items.
Do you have enough money to buy them?



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What's Recyclable?

Activating prior knowledge, writing to inform

In advance, collect a variety of common recyclable materials, such as glass jars, aluminum cans, and newspapers. Also gather some textile items (scroll down). Invite students to peruse the items and sort them into two groups: *recyclable* and *not recyclable*. After the sort is complete, take all the items and move them into the *recyclable* pile. Explain to students that many clothing and household textiles are recyclable too, and brainstorm ways that they could be reused.

Display the list of textile items (scroll down) and ask each child to choose one item from the list. (Have younger students work in small groups.) Each child should draw a picture of the item and write a description of how the item could be recycled or reused. Be sure students explain in their writing that even worn, torn, or stained items can be recycled. Encourage each child to include at least two facts in her writing. When complete, display your class's work so other students, teachers, and parents can learn more about textile recycling. Share some basic facts about clothing and textile recycling from the Textile Recycling Fact Sheet (scroll down) and write these on the board.

Teacher tip: Share the book *Something From Nothing*, by Phoebe Gilman, which follows a piece of fabric as it goes from being a baby blanket to a jacket to a vest to a tie, and so on. Then challenge students to create their own list of items that could have been made along the way.



Don't throw away your old T-shirts. Donate or recycle them! If they are still in good shape, someone else can wear them. If they have a tear or stain, they can be turned into rags. Too many T-shirts and other items made from cloth go to landfills when they could be reused. We don't have to make new clothing when we can use old items again!

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Recycling textiles is the smart thing to do. Below is a list of items that can be recycled. Remember that items in any condition (**worn, torn, or stained**) can all be recycled. All items should be clean and dry.

- | | |
|---|----------------------------|
| Bedding: comforter,
sheets, pillowcases,
blankets | Pillows |
| Belts | Purses |
| Boots | Scarves |
| Coats | Shirts |
| Curtains/Draperies | Shoes (single or in pairs) |
| Dresses | Shorts |
| Flip-flops | Skirts |
| Halloween costumes | Slippers |
| Hats | Socks (single or in pairs) |
| Jackets | Stuffed animals |
| Jeans | Suits |
| Jerseys | Sweaters |
| Napkins (cloth) | Sweatpants |
| Pajamas | Sweatshirts |
| Pants | Table linens |
| Pet clothing | Ties |
| | Towels |
| | T-shirts |

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Textile: A textile is any item made from cloth or an artificial fabric like vinyl. Textiles are used for clothing, linens, bedding, upholstery, curtains, carpets, and other items.

Ready to Recycle!

Vocabulary

Help students gain a real-life understanding of the word *recycle*. To begin, ask each student to write or dictate a definition of *recycle*. After sharing several definitions, read the definition shown. Encourage students to give examples that describe each part of the definition. For example, when stained T-shirts are recycled, they are given a new purpose as rags for cleaning, wiping, and polishing. When a wool sweater is recycled, it is turned into carpet padding. Share other examples of clothing and textile recycling as listed on the Textile Recycling Fact sheet or in the box below. After the class discussion, have each student divide a sheet of paper in half. On each half of the paper, have her write about a different aspect of the word *recycle*, encouraging students to think about clothing and textiles as well as other recyclables. Instruct students to give several examples of why the materials are well-suited for their new purpose and add illustrations. Display the finished products along with the title "Recycling in Many Ways!"

Teacher tip: Schedule a clothing drive at your school. Contact local charities to arrange pickup for the items collected, or contact SMART for a textile recycler near you that can make a donation to your school in exchange for the textiles you collect! Visit www.smartasn.org to find textile recycling options in your area.

Recycle: to pass through a series of changes; to put through a change to use again; to adapt to a new use

I can recycle this old stuffed animal. It will be changed so it can be used as car seat stuffing. Stuffed animals are fluffy and soft, so they make comfortable seats.



What are specific textiles recycled into?

Here are a few examples:

- Stuffed toys and pillows become car seat stuffing and automobile insulation
- T-shirts, sheets, towels, and clothing become wiping rags
- Denim becomes home insulation
- Shoe soles become paving material
- Sweaters and coats become carpet padding
- Curtains and drapes become stuffing for pillows, sleeping bags, and animal beds
- Wool sweaters and materials become baseball and softball filling
- Velvet materials become jewelry box lining
- Leftover fabric scraps become money

Name _____

Comparing numbers

Too Much Trash!

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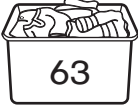
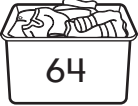
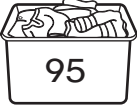
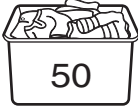
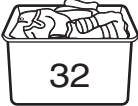

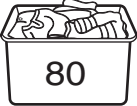


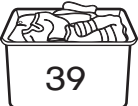


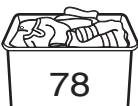

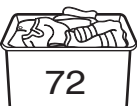


A PROGRAM OF SMART THE SECONDARY MATERIALS AND RECYCLED TEXTILES ASSOCIATION

In the United States, each person throws away about 70 pounds of clothing and textiles each year. Those items take up space in landfills. You can help by donating or recycling clothes, shoes, towels, sheets, stuffed animals, and other household textile items.

< — less than
> — greater than
= — equal to

Write <, >, or =.

- | | | | | | | | |
|----|---|---|---|----|---|---|---|
| 1. |  | ○ |  | 5. |  | ○ |  |
| 2. |  | ○ |  | 6. |  | ○ |  |
| 3. |  | ○ |  | 7. |  | ○ |  |
| 4. |  | ○ |  | 8. |  | ○ |  |

Write a number to make each number sentence true.

9. $34 > \underline{\hspace{2cm}}$ 10. $\underline{\hspace{2cm}} < 94$ 11. $\underline{\hspace{2cm}} > 69$ 12. $48 < \underline{\hspace{2cm}}$

Bonus: Each number is the amount of clothing in the box in pounds. Color each box with less than 70 pounds.



Answer Key

Too Much Trash!

1. <
2. >
3. =
4. >
5. <
6. >
7. <
8. <
- 9–12. Answers will vary.

Bonus: Boxes with the following numbers should be colored: 42, 63, 50, 32, 64, 39, and 29

Don't Throw It Away!

Clothing and other textiles should never be thrown away!
When you throw something away, it ends up in a landfill. One way to help is to donate or recycle old clothing.

Look at each picture.

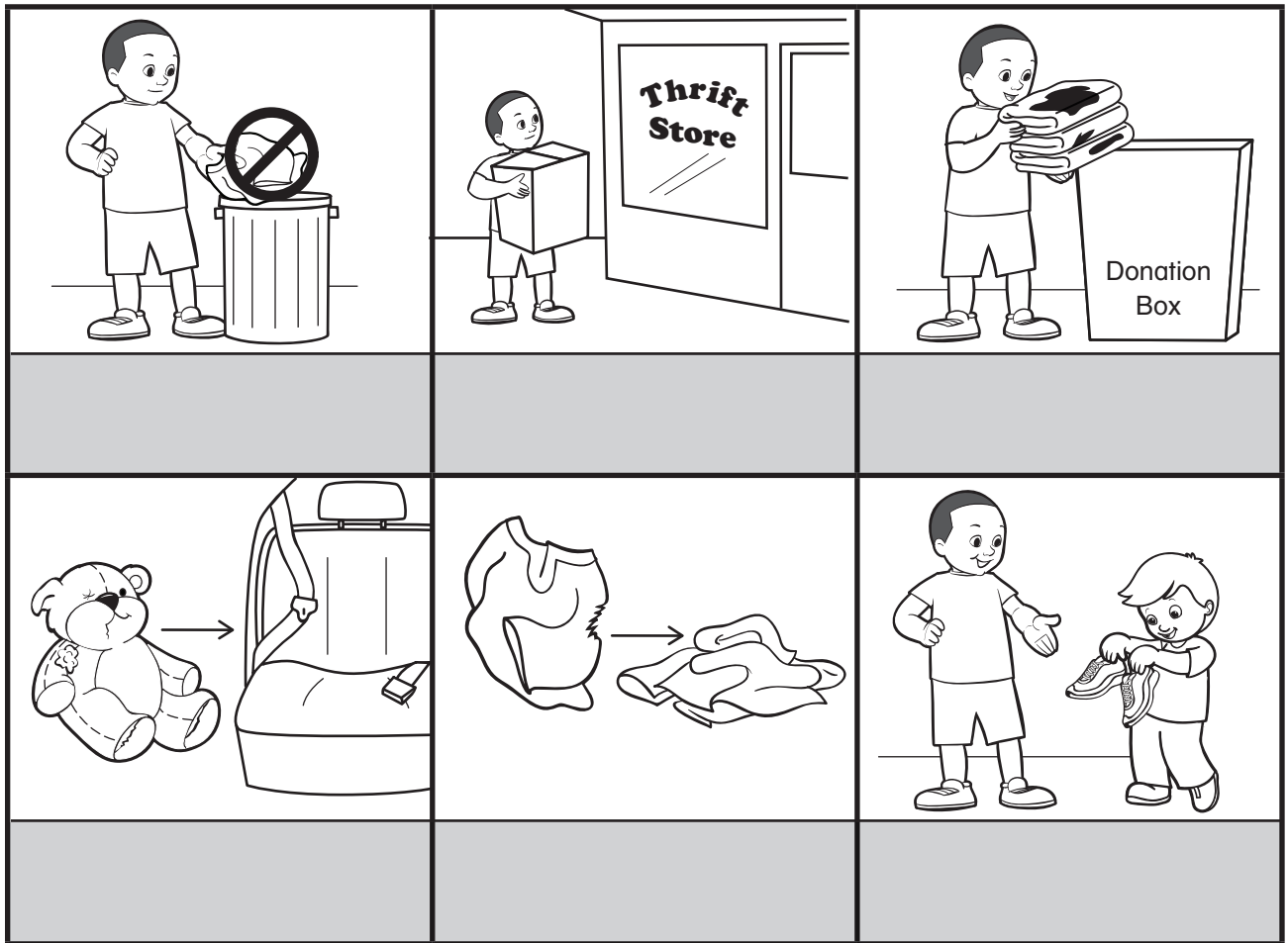
Cut. Read.

Glue the matching caption.

donate recycle don't throw away*



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Donate old clothes.

Recycle old stuffed animals. They can be used for car seat stuffing.

Torn clothes can be made into rags.

You can even donate stained clothes.

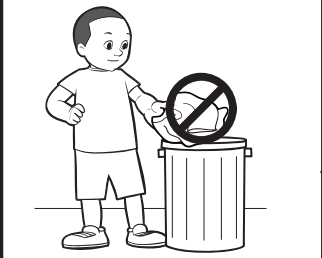


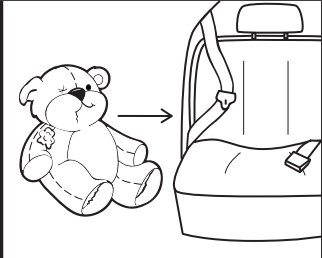
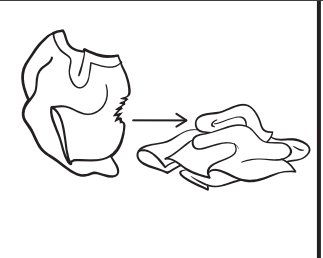

Give clothes that don't fit to a friend.

Never throw clothes away.

Note to the teacher: Terms such as *textile*, *landfill*, *donate*, and *recycle* may be unfamiliar to younger students. If desired, display this page using your interactive whiteboard or computer projector and complete it as a group. Or divide students into small groups and complete the page together.

Answer Key

Too Much Trash!

		
Never throw clothes away.	Donate old clothes.	You can even donate stained clothes.
		
Recycle old stuffed animals. They can be used for car seat stuffing.	Torn clothes can be made into rags.	Give clothes that don't fit to a friend.

Name _____

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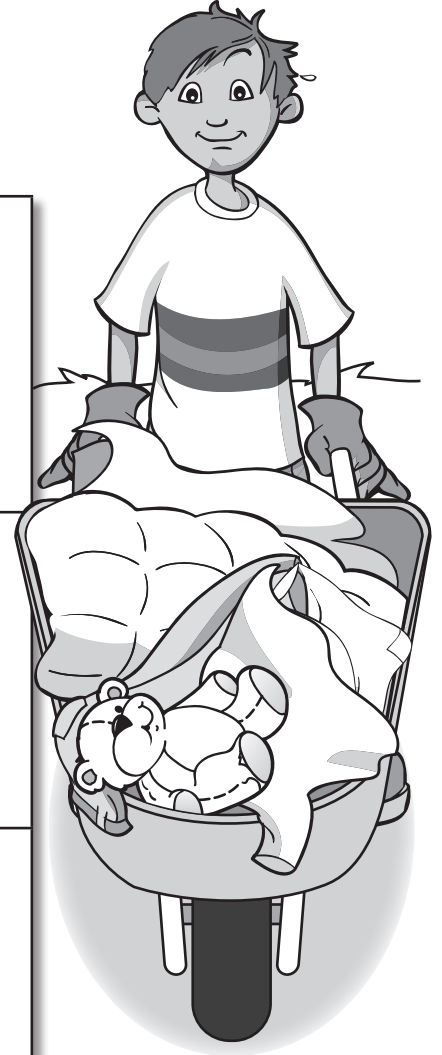


Solving word problems
K.OA.A.2; 1.OA.A.1

Let's Recycle!

Solve.

<p>A. You have 5 pounds of old clothes. Your friend has 2 pounds of old clothes. How many pounds do you have in all?</p> <p>_____ pounds</p>	<p>B. Your brother has 7 pounds of old clothes. You have 3 pounds of old clothes. How many pounds do you and your brother have in all?</p> <p>_____ pounds</p>
<p>C. You find 4 pairs of old jeans to recycle. Your friend finds 2 pairs of old jeans to recycle. How many more pairs of jeans do you find?</p> <p>_____ pairs of jeans</p>	<p>D. Your family recycles 6 pounds of towels and 3 pounds of stuffed toys. How many pounds does your family recycle in all?</p> <p>_____ pounds</p>
<p>E. Your sister finds 8 t-shirts to recycle. You find 1 t-shirt. How many more t-shirts does your sister find than you?</p> <p>_____ t-shirts</p>	<p>F. Your friend recycles 5 pounds of clothes. You recycle 3 pounds of clothes. How many pounds of clothes do you and your friend recycle in all?</p> <p>_____ pounds</p>



SMART Since 1932
SECONDARY MATERIALS®
AND RECYCLED TEXTILES

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Note to the teacher: For younger students, provide ten counters so children can model each problem. Encourage students to collect textiles for recycling as a possible fundraiser for your school. To find a local textile recycler near you, go to smartasn.org.

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Answer Key
“Let’s Recycle!”

- A. 7
- B. 10
- C. 2
- D. 9
- E. 7
- F. 8

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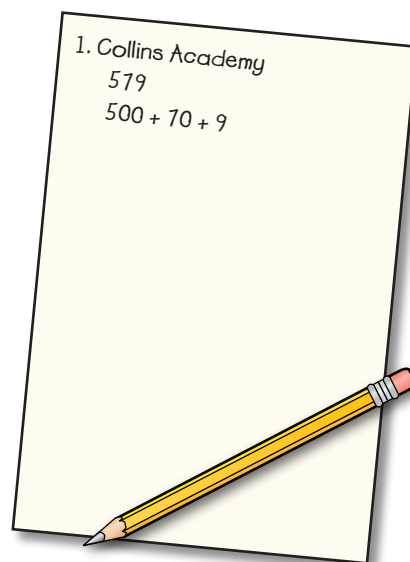
Pound by Pound

**Reading and writing numbers in base-ten numerals and expanded form
(2.NBT.A.3)**

Steps:

1. Write *textile* on the board and read it to students. Ask them to tell what they think the word means; then explain that a textile is any item made from cloth or an artificial cloth, like plastic sheeting.
2. Ask students to brainstorm a list of items they recycle at home or school as you write their responses on the board. Then explain that textiles can be recycled too and that some schools participate in textile recycling fundraisers to earn money for their schools. Explain that students at these schools donate used textiles, bundle them together, and then take them to a local textile recycling center. Many textile recyclers will even pay schools per pound of discarded clothing and textiles collected.
3. Cut apart a copy of the cards below and place them at a center along with paper and pencils.
4. Explain to students that the cards are labeled with sentences about school textile-recycling fundraisers. Then go over these center instructions with students:
 - a. Choose a card and read it. Notice the number name that is used in the sentence.
 - b. On your paper, use base-ten numerals to write the numeral form of the number name.
 - c. Next, write the expanded form of the number.
 - d. Repeat the process with the remaining cards.

Recycling Rangers Tip
The average US citizen throws away 70 pounds of clothing each year. Start teaching young students to think of textiles as recyclables—and to share that knowledge with parents, friends, and family members.



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Answer Key
“Pound by Pound”

Smith School: 457; $400 + 50 + 7$

Park Street School: 832; $800 + 30 + 2$

Miggs Academy: 391; $300 + 90 + 1$

Mill School: 916; $900 + 10 + 6$

Brown Elementary: 642; $600 + 40 + 2$

Banner School: 267; $200 + 60 + 7$

Collins Academy: 579; $500 + 70 + 9$

Henry Ford Elementary: 383; $300 + 80 + 3$

Jefferson Elementary: 229; $200 + 20 + 9$

Leap Academy: 178; $100 + 70 + 8$

Dear School: 784; $700 + 80 + 4$

Wellsville Elementary: 565; $500 + 60 + 5$

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Smith School collected four hundred fifty-seven pounds of textiles for recycling.

Park Street School collected eight hundred thirty-two pounds of textiles for recycling.

Miggs Academy collected three hundred ninety-one pounds of textiles for recycling.

Mill School collected nine hundred sixteen pounds of textiles for recycling.

Brown Elementary collected six hundred forty-two pounds of textiles for recycling.

Banner School collected two hundred sixty-seven pounds of textiles for recycling.

Collins Academy collected five hundred seventy-nine pounds of textiles for recycling.

Henry Ford Elementary collected three hundred eighty-three pounds of textiles for recycling.

Jefferson Elementary collected two hundred twenty-nine pounds of textiles for recycling.

Leap Academy collected one hundred seventy-eight pounds of textiles for recycling.

Dear School collected seven hundred eighty-four pounds of textiles for recycling.

Wellsville Elementary collected five hundred sixty-five pounds of textiles for recycling.

Name _____

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Reading informational text

RI.1.1

Ready to Reuse

Read.

Do you toss your old clothes in the trash? You do not have to dump them! Old clothes can be made into other things. Even clothes with stains or tears can be useful. Old shirts can be made into wiping cloths. Jeans and sweaters can be reused. So give your old clothes to a recycling center. Do not throw them away. They can be useful again!



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Read each sentence.

Color the true or false box.

1.	You should throw old clothes in the trash.	true	false
2.	Clothes with stains cannot be used again.	true	false
3.	Old shirts can become wiping cloths.	true	false
4.	Jeans can be reused.	true	false
5.	Clothes with rips can be reused.	true	false
6.	Sweaters cannot be reused.	true	false
7.	You should donate old clothes.	true	false
8.	Old clothes can be made into other things.	true	false

Note to the teacher: Students love to stump their parents! Give students an extra copy of this page to take home. Have them ask their parents the questions first and then read the passage together. Students will enjoy correcting their parents' work—and teaching them about the importance of textile recycling!

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Answer Key
“Ready to Reuse”

1. false
2. false
3. true
4. true
5. true
6. false
7. true
8. true

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Recycling Is “T-rific”!

Opinion writing (W.K.1; W.1.1; W.2.1)

Steps:

1. To begin, share with students that the average US citizen throws away 70 pounds of clothing each year. Explain that even if that clothing is worn, stained, or torn, it can be recycled.
2. Lead students in discussing why they think people throw away their old clothes instead of recycling or donating them. List their reasons on the board.
3. Tell students that nearly all donated textiles are recycled. Explain that these textiles can be reused as clothing or used to make other items.
4. Point out that recycled fiber products can save money and resources because they are made using existing materials. Share with students the list of items shown that can be given a second life if recycled.
5. Have students brainstorm why textile recycling is important as you list their ideas on the board. Make sure to point out the following reasons textile recycling is important:
 - It reduces the amount of waste in landfills.
 - When you recycle textiles, manufacturers don't need to make as many new textiles. This cuts down on pollution caused by manufacturing.
6. Give each student a t-shirt pattern. Direct him to write on the t-shirt to tell why he thinks textile recycling is important. (If desired, lead younger students in small groups.) Encourage each child to state his opinion, give at least one reason to support it, and write a concluding statement. Have the child cut out his pattern and outline it with crayons or markers.
7. Invite each child or group to share the completed writing piece with the class. Then display the finished t-shirts so that others in the school can learn more about the importance of textile recycling.

From Old to New!

- A stained t-shirt can become a wiping cloth.
- A sock can be made into stuffing for a pillow.
- Old jeans can be made into household insulation.
- Unwanted stuffed toys can be used to make car seat stuffing.
- A torn bath towel can be made into a wiping cloth.

Recycling Rangers Tip

95% of textiles can be recycled—even if they're worn, torn, or stained. Yet only 15% actually are recycled. Challenge your students to spread the message about textile recycling to three other people this week. That simple action can keep hundreds of pounds of textiles out of landfills.



donate recycle don't throw away®

T-Shirt Pattern



Tip: If desired, have kindergarten students dictate their opinions instead of writing them. Or mask the lines on the t-shirt pattern before making copies and have students illustrate their ideas instead.