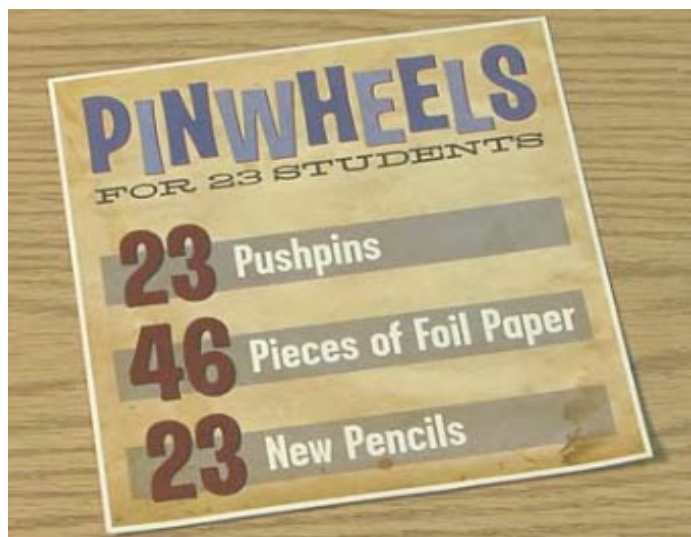


After watching the *Place Value with Tens and Ones* video, help your child make sense of the mathematics by reviewing the problem situation and solution. Use the comments and questions in bold to help your child understand place value.

Problem: Abby and Alex are gathering supplies for a class project. The class is going to make pinwheels. Help Abby and Alex make sure there are enough supplies for all 23 students in the class. The supply list is shown below.



What supplies are on the list?

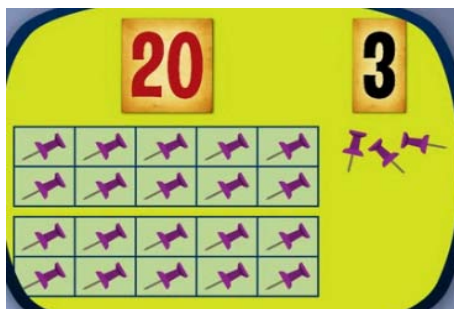
The items on the list of supplies are pushpins, foil paper, and pencils.



Abby is counting out the pushpins. She counted out 2 pins and 3 pins as shown in the picture above. Is that enough pushpins for everyone in the class?

That does not look like enough pushpins. We want 23 pushpins, not 2 and 3. The 3 is in the ones place, so it does mean 3 pushpins. The 2 is in the tens place; that means 20. We need 23 pins or 2 groups of 10 plus 3 more.

Alex and Abby are learning that 23 is a two-digit number. They counted out groups of 10 pushpins using ten-frames like these.



We could also use a place value chart to make sense of the number. Which number in the chart below represents the tens and which represents the ones?

The tens are on the left and the ones are on the right, so the 2 represents the tens and the 3 represents the ones.



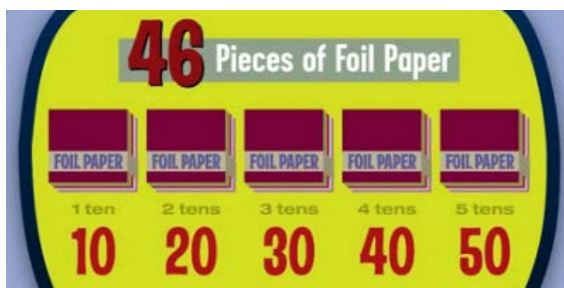
We also need 46 pieces of foil paper. We have 5 packages of 10. Is that enough?

Let's count how many sheets we have. We have 1 ten, 2 tens, 3 tens, 4 tens, and 5 tens. That is 50 sheets!



How else could we count the sheets?

We could say 10, 20, 30, 40, 50. We have 50 sheets.



SOLVED

MAKING SENSE OF MATHEMATICS

Remember we need 46 sheets. How many tens and ones is that?

That is 4 tens and 6 ones, so we need 4 full packages and 6 sheets from the last package.



Alex and Abby made sense of 46 by counting by tens and ones. 4 tens and 6 ones is 46.

The last item we need is 23 pencils. There is a new box of 10 and an opened box with 2 pencils missing. If we need 23, how many more pencils do we need?

We need 2 more pencils to make 20, plus 3 more to make 23. We need 5 more pencils to make the pinwheels.



Children develop an understanding of place value over time by experiencing many different learning opportunities. A place value chart and ten frame are two tools your child can use to represent and make sense of two-digit numbers.