Name _____

# Model Division with 2-Digit Divisors

**Essential Question** How can you use models to divide?

**CONNECT** You have used base-ten blocks to divide whole numbers by 1-digit divisors. You can follow the same steps to divide whole numbers by 2-digit divisors.

## UNLOCK the Problem REAL WORLD

**Activity** **Materials** ■ base-ten blocks

There are 154 children participating in a soccer tournament. There are 11 equal-sized teams of children. How many children are on each team?

- What do you need to find?

_____

_____

- What is the dividend? the divisor?

_____

**STEP 1**

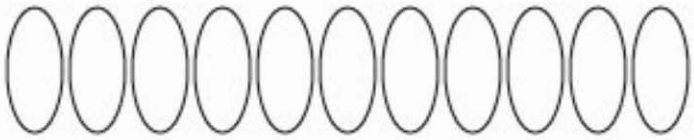
Use base-ten blocks to model 154 children. Show 154 as 1 hundred 5 tens 4 ones. Draw 11 ovals for the teams.

**STEP 2**

Share the base-ten blocks equally among 11 groups. Since there are not enough hundreds to share equally, regroup 1 hundred as 10 tens. There are now 15 tens. Share the tens and draw a vertical line segment for each ten.

**STEP 3**

If there are any tens left over, regroup each as 10 ones. Share the ones equally among 11 groups. Draw a small circle for each one.



There are _____ ten(s) and _____ one(s) in each group.

So, there are _____ children on each team.

Math Talk **Explain** how you can check your answer.

- Explain why you need to regroup in Step 3.

_____

_____

_____

## Share and Show

1. Use base-ten blocks to find $182 \div 14$. **Describe** the steps you took to find your answer.

_____

_____

_____

_____

**Use base-ten blocks to divide.**

2. $60 \div 12 =$ _____

3. $135 \div 15 =$ _____

## On Your Own

**Use base-ten blocks to divide.**

4. $180 \div 10 =$ _____

5. $150 \div 15 =$ _____

6. $88 \div 11 =$ _____

7. $96 \div 16 =$ _____

8. $176 \div 11 =$ _____

9. $156 \div 13 =$ _____

## Problem Solving

10. Nicole has $\$250$ in ten-dollar bills. How many ten-dollar bills does Nicole have?

_____

11. At Dante's party, 16 children share 192 crayons. At Maria's party, 13 children share 234 crayons. Each party splits the crayons up equally among the children attending. How many more crayons does each child at Maria's party get than each child at Dante's party? **Explain.**

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