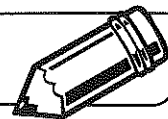


LESSON
4•5**Division with Base-10 Blocks**

For each problem:

- ◆ First use \square | . to represent the dividend with base-10 blocks.
- ◆ Then use \square | . to show how you would distribute the blocks in equal groups to represent the division.
- ◆ Record your answer with digits.

Example: $5 \overline{)689}$ $\square\square\square\square\square$ |||| || ::::

\square ::::	\square ::::	\square ::::	\square ::::	\square ::::
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137 R4

Answer: $5 \overline{)689}$

1. $3 \overline{)427}$

- ◆ Show the dividend:
- ◆ Show equal groups below.

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- ◆ Write the answer. $3 \overline{)427}$

2. $4 \overline{)555}$

- ◆ Show the dividend:
- ◆ Show equal groups below.

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- ◆ Write the answer. $4 \overline{)555}$

LESSON
4•5
A Division Challenge


Judy and two friends bought a raffle ticket at the school fund-raiser. They agreed that if they won, they would share the winnings equally. They won \$145! They received one \$100 bill, four \$10 bills, and five \$1 bills. Judy used this division algorithm to calculate how much money each person should get. Can you figure out how the algorithm works?

(Hint: There were 3 people in all. Judy realized that in order to share the \$100 bill, they needed to trade it for ten \$10 bills. Then they would have fourteen \$10 bills and five \$1 bills.)

	100s	10s	1s	10ths	100ths
		4	8	3	3
3	1	4	8	0	0
		14	25	10	10
		<u>-12</u>	<u>-24</u>	<u>-9</u>	<u>-9</u>
		2	1	1	1

1. Explain how you think the algorithm works. _____

2. Explain what Judy did when she had \$1 left. _____

3. How much money did each person get? _____

4. Use the algorithm to divide: $4 \overline{)51.6}$ _____