

Dividing Using Multiplication and the Area Model

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Cut the area model in any way that helps you solve the problem. There are twenty-five rows. How many squares per row are there?

1



25

$$25 \overline{) 625}$$

Total = 625 squares

2



25

$$25 \overline{) 875}$$

Total = 875 squares

3



25

$$25 \overline{) 2,575}$$

Total = 2,575 squares

4



25

$$25 \overline{) 8,825}$$

Total = 8,825 squares

Use estimates or list some convenient multiples of 23 to help you.

This time there are only twenty-three rows. How many squares are there per row?

5



$$23 \overline{) 483}$$

6



$$23 \overline{) 989}$$

7



$$23 \overline{) 9,775}$$



8 Challenge Miss Tanaka's 23 fifth graders lay down head to toe in the yard and measured their combined height. From the toe of the first child to the top of the last child's head, they measured just over 109 feet and 3 inches.

About how many inches tall was each child? _____

Explain how you found your answer.