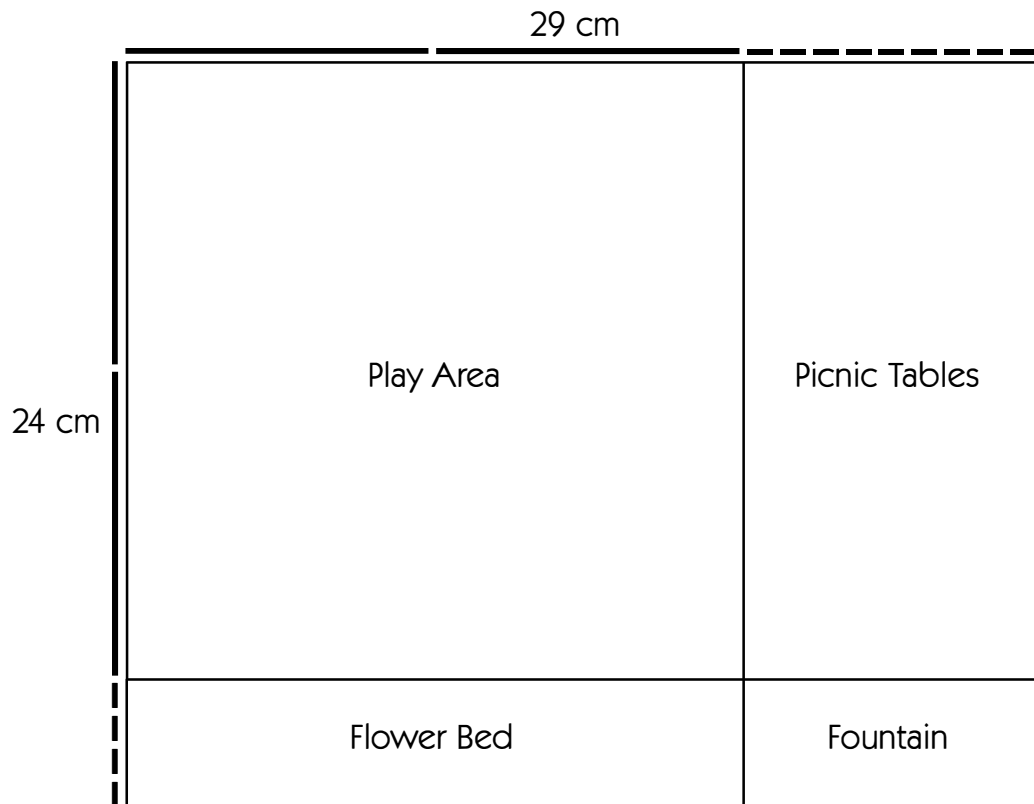


The Ladybugs' Park

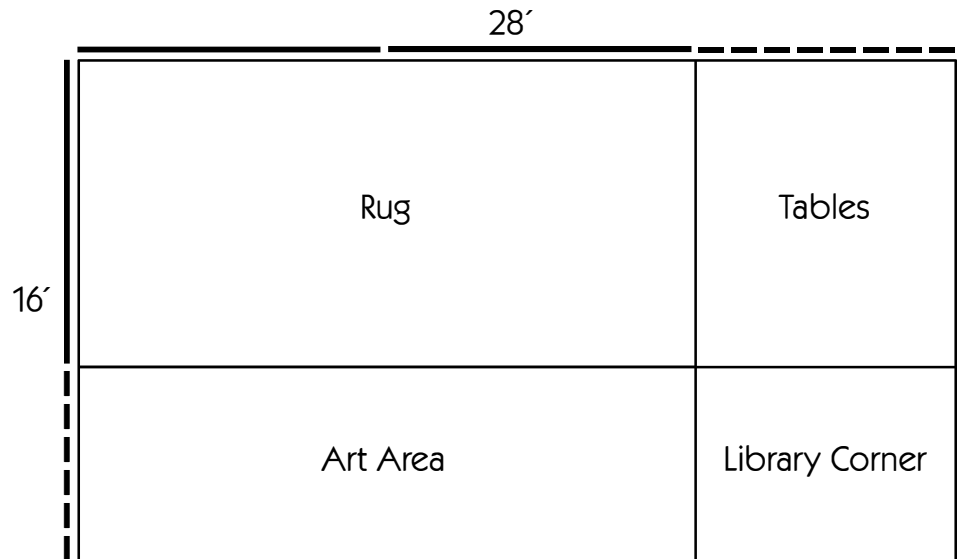
1 The ladybugs over in Leafington are building a park for their children. They are planning to make a sandbox that is 12 centimeters wide and 18 centimeters long. How many square centimeters will their sandbox be?

2 There is patch of dirt near the sandbox that measures 24 by 29 centimeters. The ladybugs want to divide it into different sections as shown below. Use a multiplication equation to label each section. Then find the total area of the 24 by 29 cm patch.



Double-digit Multiplication Sketches page 1 of 2

1a Mrs. Hill's pre-school classroom is 16 feet wide and 28 feet long. She is planning to divide it into 4 sections. Here is her plan. Use a multiplication equation to label the area of each section. (in square feet)



b What is the total area of the 16-by-28-foot classroom? Show your work.

2 Write the answers.

$$\begin{array}{r} 20 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 90 \\ \hline \end{array}$$

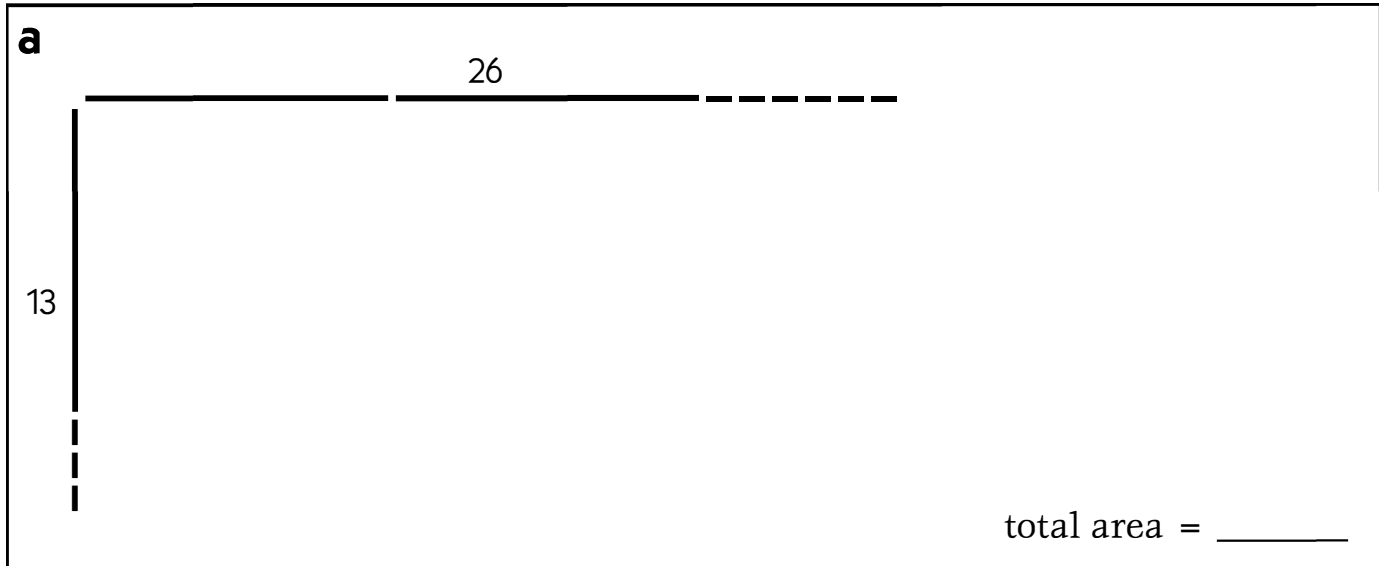
$$\begin{array}{r} 60 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 30 \\ \hline \end{array}$$

Double-digit Multiplication Sketches page 2 of 2

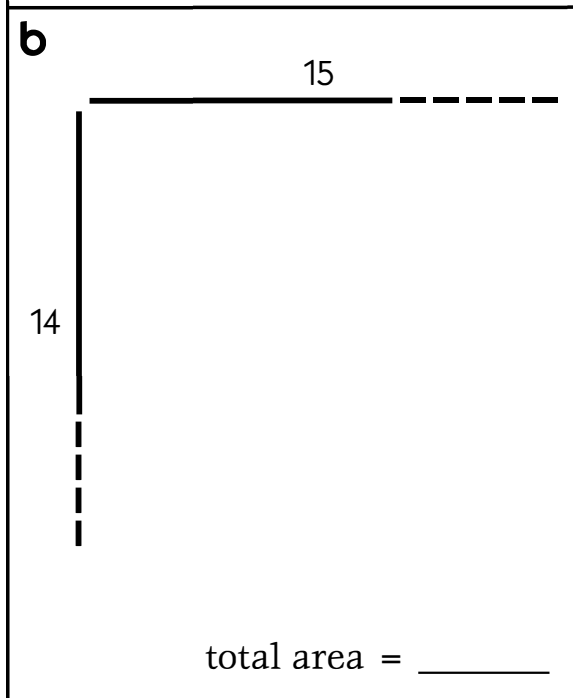
3 Sketch an array for each of the frames below. Label each part with a multiplication equation to show its area. Then find the total area of the array.

a



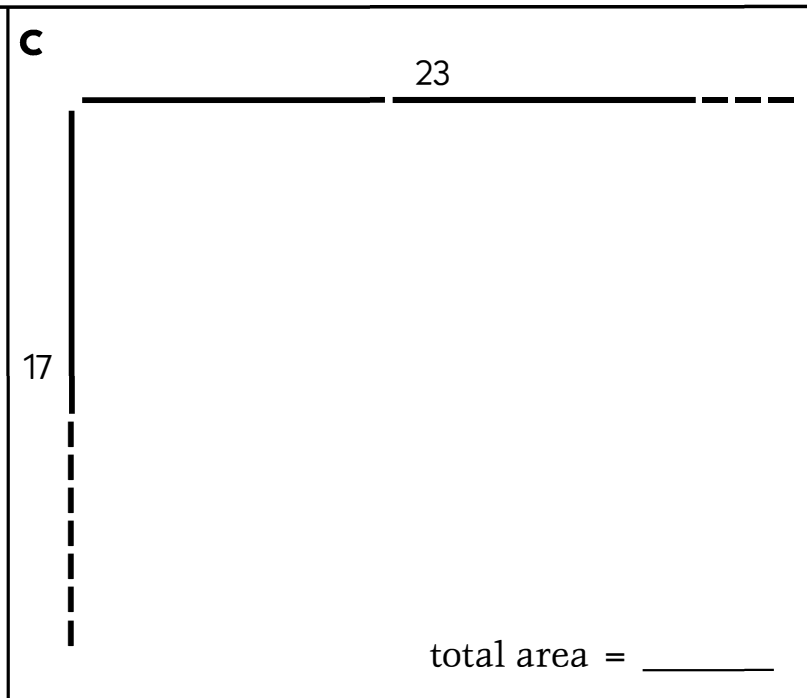
total area = _____

b



total area = _____

c



total area = _____

4 Write the answers.

$$\begin{array}{r} 20 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ \times 8 \\ \hline \end{array}$$

NAME _____



Double-Digit Multiplication page 1 of 2

1 Find the product of each pair of numbers below. Make a labeled sketch to help, or just use numbers. Show all of your work.

example

$$\begin{array}{r} 35 \\ \times 23 \\ \hline \end{array}$$

a

$$\begin{array}{r} 24 \\ \times 18 \\ \hline \end{array}$$

b

$$\begin{array}{r} 27 \\ \times 25 \\ \hline \end{array}$$

c

$$\begin{array}{r} 36 \\ \times 13 \\ \hline \end{array}$$

d

$$\begin{array}{r} 46 \\ \times 36 \\ \hline \end{array}$$

Double-Digit Multiplication page 2 of 2

2 Solve the story problems below. Make a labeled sketch to help, or just use numbers. Show all of your work.

a Jon works at T-Shirts R Us. Yesterday, he unpacked 28 boxes of new shirts. Each box had 24 shirts in it. How many shirts did he unpack?

b Jon made 23 stacks of long-sleeved t-shirts. He put 17 shirts in each stack. How many shirts did he stack in all?



CHALLENGE

c Then Jon made 24 stacks of short-sleeved t-shirts. He put 16 shirts in each stack. The store he works for had to pay \$4.99 for each shirt. How much did they have to pay for all the shirts Jon stacked?