

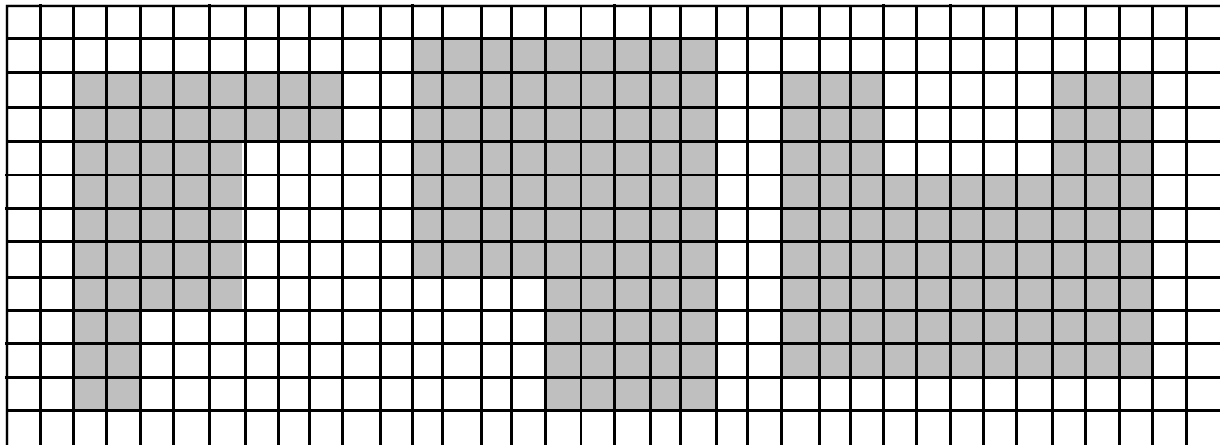
Task **1** Day 5
Topic: Planning a Zoo

DIRECTIONS:

You will have 25 minutes to do activities 1 through 8. You may use a calculator to help with any of the activities.

Suppose that a new zoo is being planned for your community. Pretend that the zoo planners have asked your class to help with some of the planning. Below are the floor plans for three of the cages to be built at the new zoo.

Floor Plan



Cage A: Giraffe

Cage B: Polar Bear

Cage C: Elephant

Key: 1 □ = 1 square foot

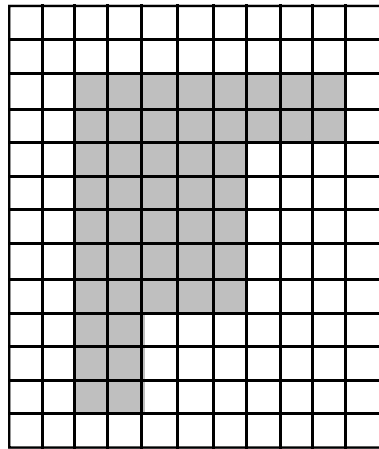
- 1** Each animal's cage will need a fence enclosure. The cost of fencing is \$8 for each foot. First, find the perimeter of each cage. Then, use your calculator to find the cost of the fencing for each cage. Record your answers on the chart on the next page.

Cage	Perimeter	Cost
A		\$
B		\$
C		\$

- 2** Each animal's cage will need a floor. The cost of flooring is \$4 for each square foot. First, find the area of each cage. Then, use your calculator to find the cost of covering the floor of each cage. Record your answers on the chart below.

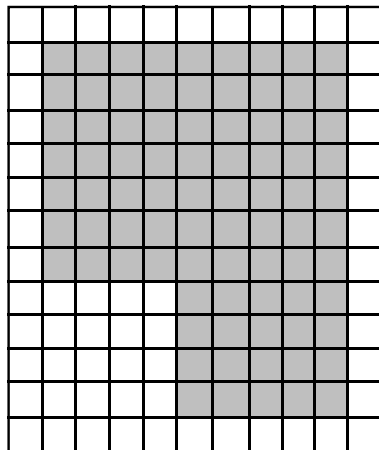
Cage	Area	Cost
A		\$
B		\$
C		\$

- 3** The giraffe will need a square feed box in his cage with an area of 4 square feet. Show on the diagram below where the box could be placed so that the giraffe can get around the box on all sides.



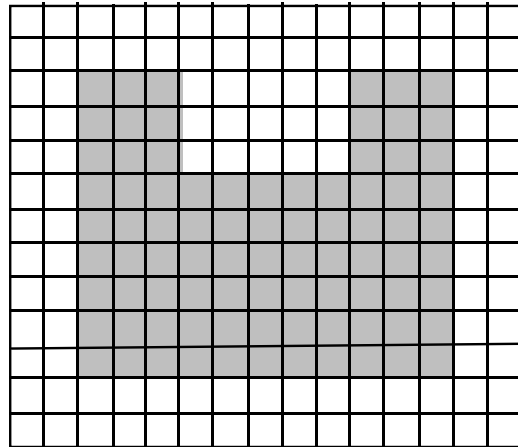
Cage A: Giraffe

- 4** The polar bear's cage will need a swimming pool. On the diagram below, draw a pool with a perimeter of 12 feet. Place the pool so that it will be in a corner.



Cage B: Polar Bear

- 5** The elephant cage will need two trees for shade. On the diagram below, draw two congruent boxes where you think the trees should be placed in the elephant's cage.



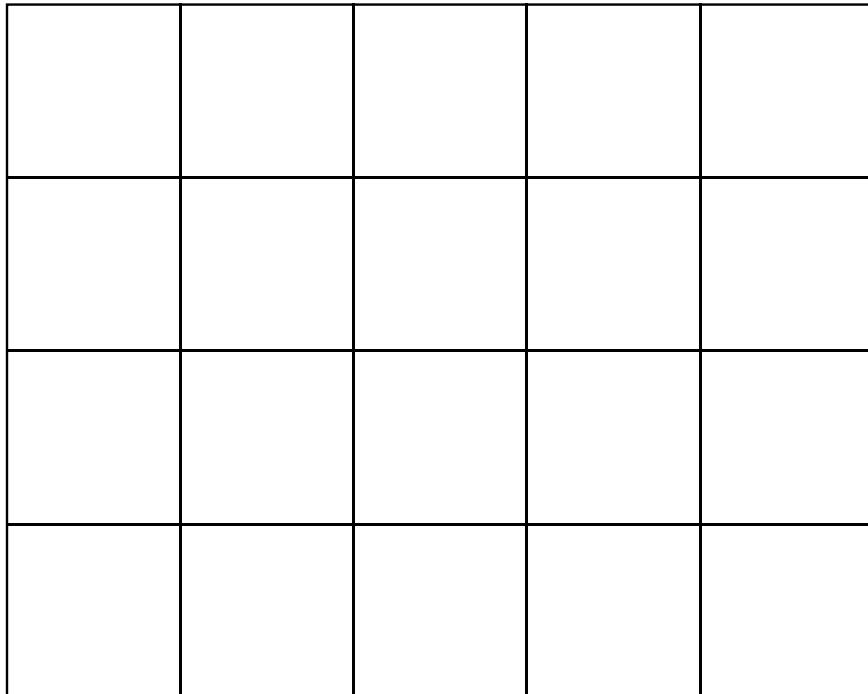
Cage C: Elephant

6

STEP

A

The zoo planner wants to have a small information center. They want to cover the floors with tiles. Design a repeating pattern that could be used on the floor in the information center. Show your work on the grid below.



Information Center

STEP

B Write a sentence or two explaining the pattern you chose.

7 Draw a circle around the number below that shows how easy or how hard it was for you to complete the activities in this task.

1	2	3	4	5
Very easy	Somewhat easy	About average	Somewhat hard	Very hard

8

	AGREE	DISAGREE	UNDECIDED
I KNEW HOW TO USE A CALCULATOR TO SOLVE THIS PROBLEM.			
IT HELPED ME TO USE A CALCULATOR TO SOLVE THIS PROBLEM.			
IT WAS EASY TO USE A CALCULATOR TO SOLVE THIS PROBLEM.			

Day 5

Task 1, Day 5 Topic: Planning a Zoo

Materials Needed:

Pass out calculators to students now; one per student.

SAY Open your Student Response Book to page 74 and begin to work on your own. You will have 25 minutes to do activities 1 through 8.

Write the remaining testing time on the chalkboard at appropriate intervals.

Secure information has been removed from this area.