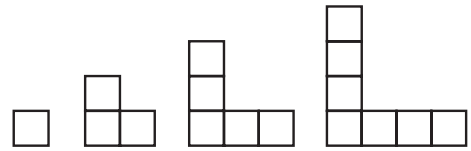


Problem-Solving Strategy:

Find a Pattern

1. Find a pattern in the designs. How many squares will there be in the eighth design of your pattern?



UNDERSTAND

What does the question ask?

What do you know?

How many squares are in each design?

PLAN

Look at the numbers in this pattern. Do they seem to increase by addition or multiplication?

SOLVE

What is the pattern of the design?

How many squares are added with each design?

How many squares will be in the eighth design?

LOOK BACK

Draw the eighth design to check your answer.

Find a pattern to help solve the following problem.

$2^1 = 2, 2^2 = 4, 2^3 = 8, 2^4 = 16, 2^5 = 32.$

2. What is the ones digit of 2^{25} ?
