

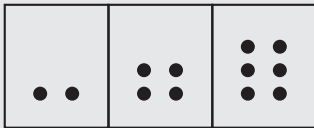
# 22

# Patterns with Shapes

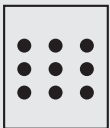
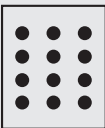
M3.D.1.1.1 M3.D.1.1.2



## Example

Emma has the following dot card pattern.



If the pattern continues, what will be the next dot card?


A  C 


B  D 

## Example

If the pattern below continues, what are the next two figures that will be drawn?



A  C 

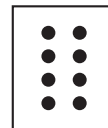
B  D 

## Thinking It Through

None of the dot cards have the same pattern, so it is not a repeating pattern.

How are the dot cards changing? *There is one more row of dots on each dot card.*

Draw the next dot card. Add one more row of 2 dots:



The correct answer is *D*.

## Thinking It Through

The figures in this pattern appear in the same order over and over again. It is a repeating pattern.

What is the first figure in the pattern? *a square*

What comes after the square? *a circle*

What comes after the circle? *two rectangles*

The last figure shown is a square. Find the answer choice that has a circle (which follows the square) and a rectangle (which follows the circle). That choice is *answer A*.

## Review

- Figures with patterns can be in the same order over and over again or they can grow. Patterns with figures are like patterns with numbers. Find the rule and then use it.

# Patterns with Shapes

**DIRECTIONS** Read and solve each question. Fill in the bubble of the best answer.

- 1** Uzma draws a triangle, Lin draws a square, and Bri draws a pentagon, as shown below.



If the pattern continues, what is the next geometric figure that will be drawn?

- A       C   
 B       D



Find the rule of the pattern. Try counting the number of sides.

- 2** Look at the pattern below.



What figure should be in the missing space?

- A   
 B   
 C   
 D

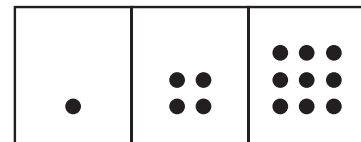
- 3** Pat has the following shapes.



Which best shows the pattern?

- A   
 B   
 C   
 D

- 4** Brian has the following dot card pattern.



If the pattern continues, what will be the next dot card?

- A       C   
 B       D