

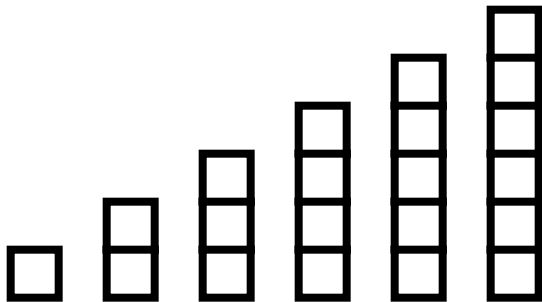
# Geometry

## Skill 3 – 24J

**Visual Patterns** (page 1 is a review of 3-4F)

### Example

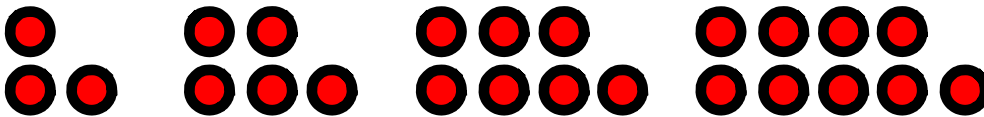
Write a rule for this pattern.



Each group of blocks increases by 1 block.

**The rule is - Add 1 block.**

### EXAMPLE



1. Write the number of dots that comes next in pattern?

Count the dots in each group.

The first group has 3 dots

The second group has 5 dots

The third group has 7 dots

The fourth group has 9 dots

The number of dots increases by 2 dots in each group. The number of dots that comes next in the pattern is 11 dots. Why? Because the fourth group has 9 dots. **9 dots + 2 dots = 11 dots**

2. Write a rule for the pattern. **The rule is - Add 2 dots.**

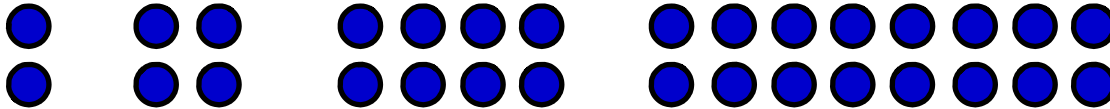
# Geometry

## Skill 3 – 24J

### Visual Patterns

**Directions:** Look for a pattern. Circle the rule that matches the pattern.

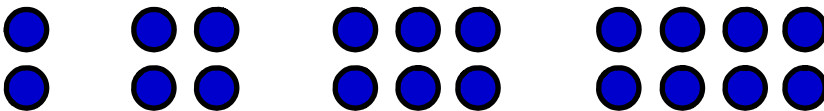
1. Ashley made this pattern.



Circle the rule that matches this pattern.

- A.** Add 2 dots    **B.** Add 3 dots    **C.** Multiply the number of dots by 2

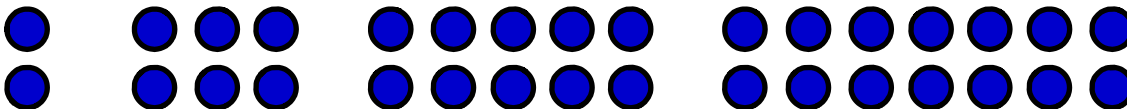
2. Nathan made this pattern.



Circle the rule that matches this pattern.

- A.** Add 2 dots    **B.** Subtract 2 dots    **C.** Subtract 4 dots    **D.** Multiply the number of dots by 2

3. Eva made this pattern.



Circle the rule that matches this pattern.

- A.** Multiply the number of dots by 3.    **B.** Add 3 dots    **C.** Add 4 dots    **D.** Add 5 dots

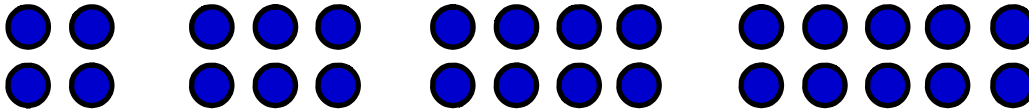
## Geometry

### Skill 3 – 24J

#### Visual Patterns

**Directions:** Circle the rule that comes next in the pattern.

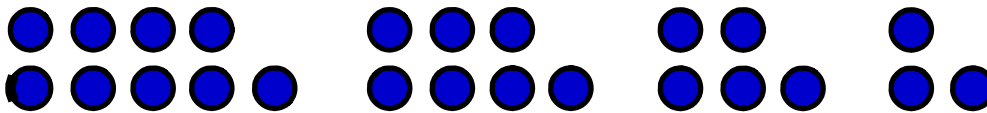
4. Maria made this pattern.



Circle the rule that matches this pattern.

- A.** Multiply the number of dots by 2      **B.** Add 2 dots      **C.** Subtract 2 dots      **D.** Add 4 dots

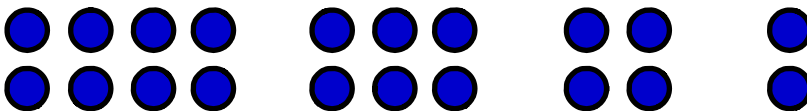
5. Juan made this pattern.



Circle the rule that matches this pattern.

- A.** Add 2 dots      **B.** Subtract 2 dots      **C.** Subtract 4 dots      **D.** Multiply the number of dots by 2

6. Robert made this pattern.



Circle the rule that matches this pattern.

- A.** Subtract 2 dots      **B.** Add 2 dots      **C.** Add 4 dots      **D.** Multiply the number of dots by 2

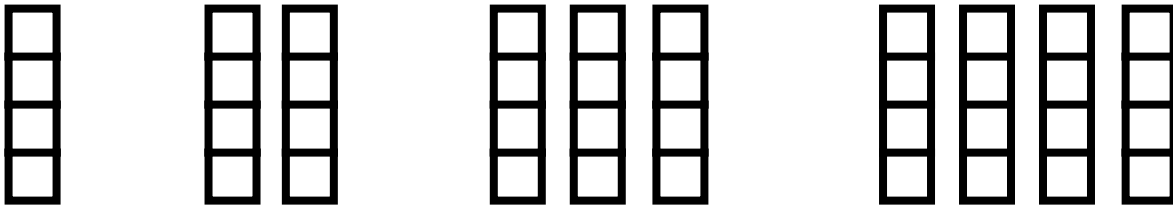
# Geometry

## Skill 3 – 24J

### Visual Patterns

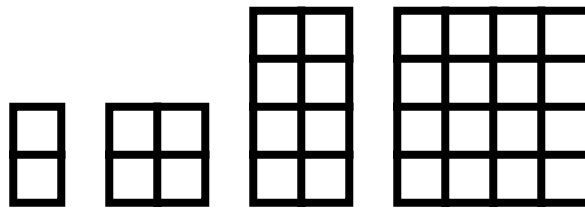
**Directions:** Look for a pattern. Write a rule for the pattern.

7. Look at the pattern of blocks. Write a rule for this pattern.



The rule is \_\_\_\_\_.

8. How many blocks will be in the next group? \_\_\_\_\_



The rule is \_\_\_\_\_.

9. Write a rule for this pattern.



The rule is \_\_\_\_\_.

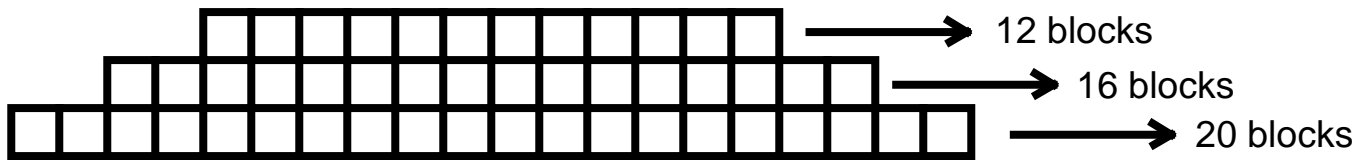
## Geometry

### Skill 3 – 24J

#### Visual Patterns

**Directions:** Write the number that comes next in the pattern.

10. John is making a triangle shape out of blocks. The bottom row has 20 blocks. The second row has 16 blocks. The third row has 12 blocks.

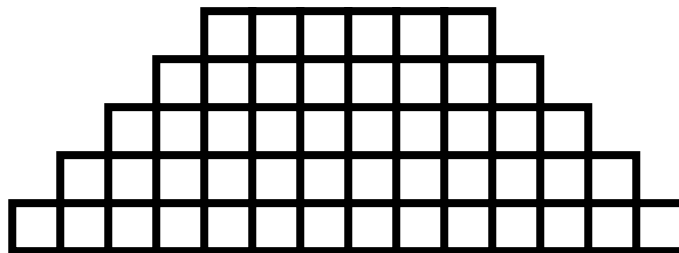


How many blocks will the fifth row have if this pattern is continued?  
 Draw blocks (over the blocks above) using the same pattern to get the answer.

Write how many blocks are in the fifth row here. \_\_\_\_\_

What is the rule for solving this problem? \_\_\_\_\_

11. Lily is making a pyramid from blocks. She has 5 rows completed. How many blocks will be on the seventh row if this pattern is continued?



How many blocks are on the seventh row? \_\_\_\_\_

What is the rule for solving this problem? \_\_\_\_\_

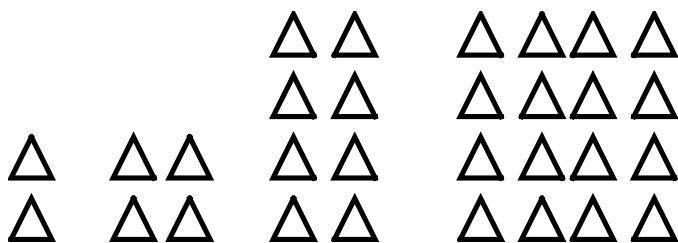
## Geometry

### Skill 3 – 24J

#### Visual Patterns

**Directions:** Write the number that comes next in the pattern.

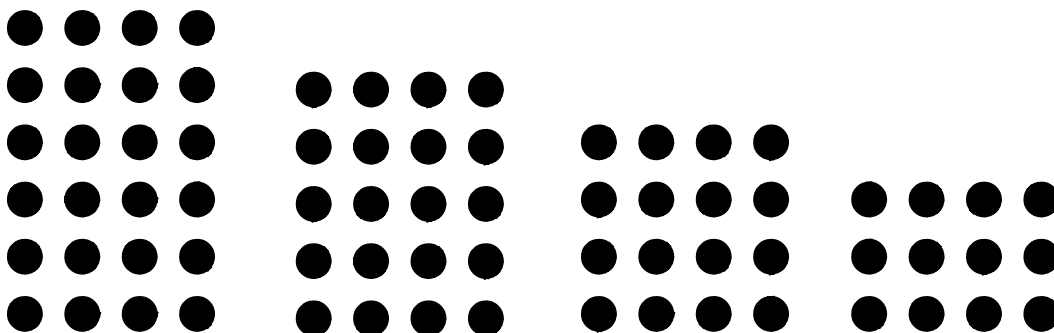
12. John is making a pattern from triangles. He has 4 groups of triangles completed. How many triangles will be in the sixth group if this pattern is continued?



How many triangles will be in the sixth group? Write answer here. \_\_\_\_\_

What is the rule for solving this problem? \_\_\_\_\_

11. How many dots will be in the sixth group if this pattern is continued? Try to solve this problem just by looking at the pattern.



How many dots will be in the sixth group? \_\_\_\_\_

What is the rule for solving this problem? \_\_\_\_\_

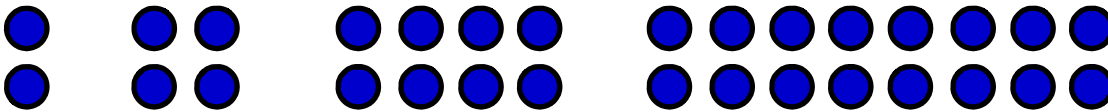
# Answer Key

Skill 3 – 24J - Page 1

## Visual Patterns

**Directions:** Look for a pattern. Circle the rule that matches the pattern.

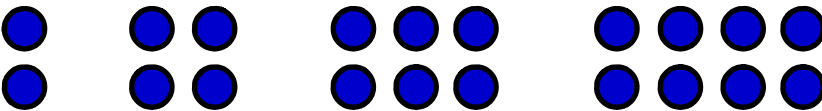
1. Ashley made this pattern.



Circle the rule that matches this pattern.

- A. Add 2 dots    B. Add 3 dots    **C. Multiply the number of dots by 2**

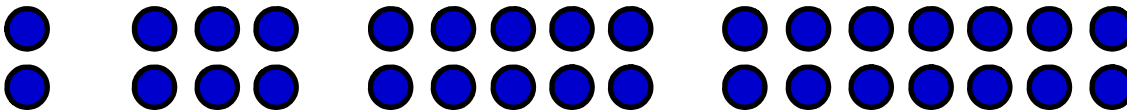
2. Nathan made this pattern.



Circle the rule that matches this pattern.

- A. Add 2 dots**    B. Subtract 2 dots    C. Subtract 4 dots    D. Multiply the number of dots by 2.

3. Eva made this pattern.



Circle the rule that matches this pattern.

- A. Multiply the number of dots by 3.    B. Add 3 dots    **C. Add 4 dots**    D. Add 5 dots

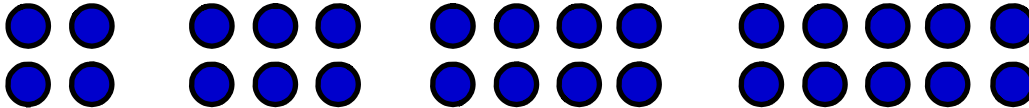
# Answer Key

Skill 3 – 24J- Page 2

## Visual Patterns

**Directions:** Circle the rule that comes next in the pattern.

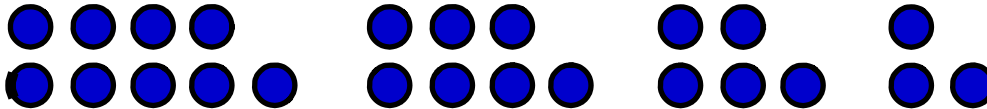
4. Maria made this pattern.



Circle the rule that matches this pattern.

- A. Multiply the number of dots by 2    **B. Add 2 dots**    C. Subtract 2 dots    D. Add 4 dots

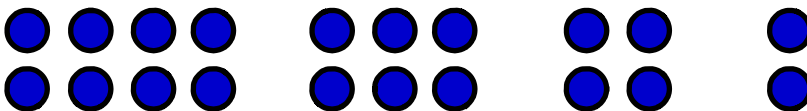
5. Juan made this pattern.



Circle the rule that matches this pattern.

- A. Add 2 dots    **B. Subtract 2 dots**    C. Subtract 4 dots    D. Multiply the number of dots by 2

6. Robert made this pattern.



Circle the rule that matches this pattern.

- A. Subtract 2 dots**    B. Add 2 dots    C. Add 4 dots    D. Multiply the number of dots by 2

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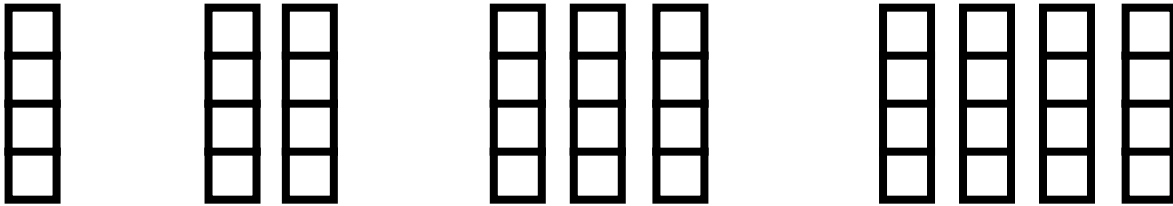
# Answer Key

Skill 3 – 24J- Page 3

## Visual Patterns

**Directions:** Look for a pattern. Write a rule for the pattern.

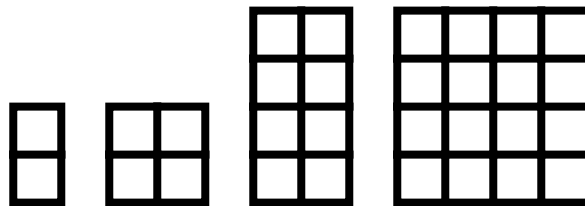
7. Look at the pattern of blocks. Write a rule for this pattern.



The rule is Add 4 blocks.

8. How many blocks will be in the next group?

32 blocks



The rule is multiply by the number of blocks by 2.

9. Write a rule for this pattern.



The rule is Add 2 blocks.

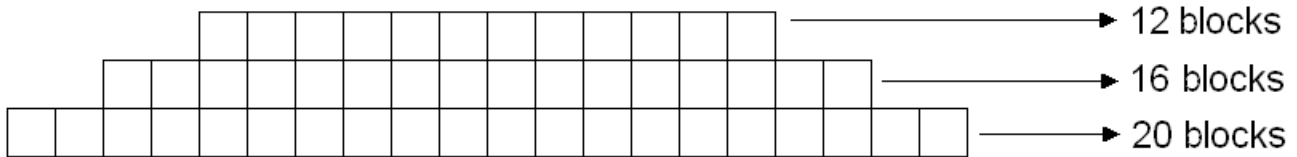
# Answer Key

Skill 3 – 24J - Page 4

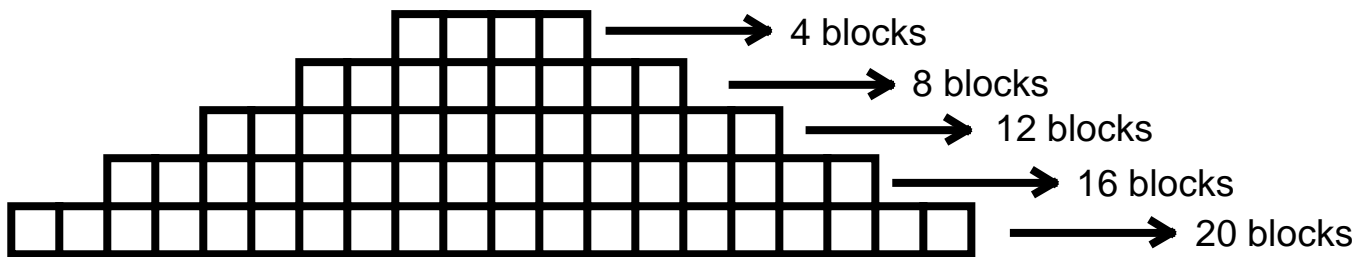
## Visual Patterns

**Directions:** Write the number that comes next in the pattern.

10. John is making a triangle shape out of blocks. The bottom row has 20 blocks. The second row has 16 blocks. The third row has 12 blocks.



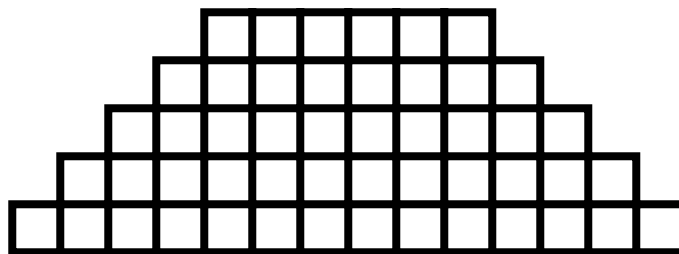
Answer



How many blocks will the fifth row have if this pattern is continued? **4 blocks**

What is the rule for solving this problem? **Subtract 4 Blocks**

11. Lily is making a pyramid from blocks. She has 5 rows completed. How many blocks will be on the seventh row if this pattern is continued?



How many blocks are on the seventh row? 2 blocks

What is the rule for solving this problem? **Subtract 2 blocks**

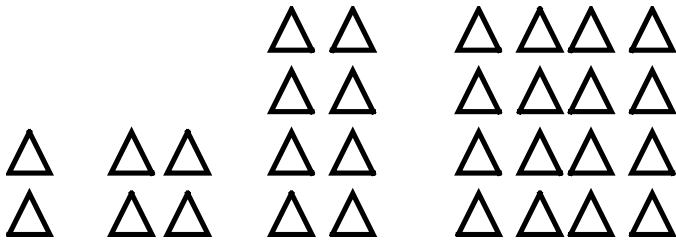
# Answer Key

Skill 3 – 24J- Page 5

## Visual Patterns

**Directions:** Write the number that comes next in the pattern.

12. John is making a pattern from triangles. He has 4 groups of triangles completed. How many triangles will be in the sixth group if this pattern is continued?

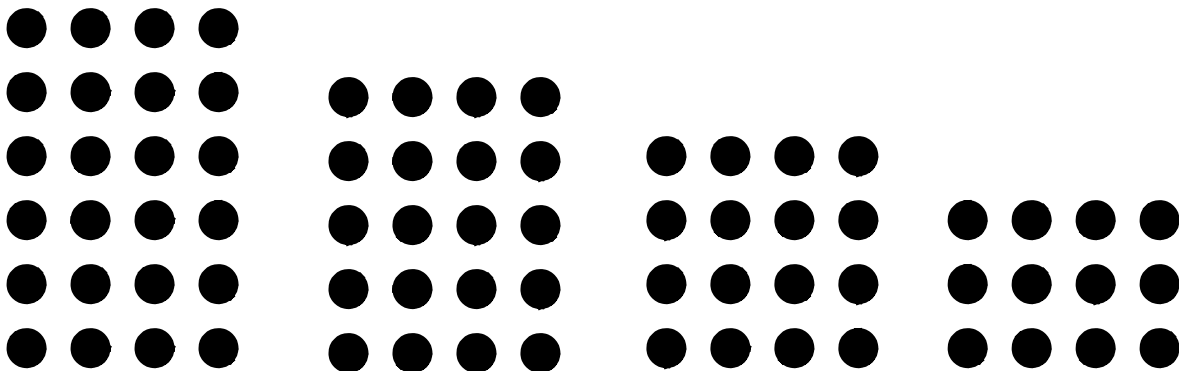


How many triangles will be in the sixth group? Write answer here. **64 triangles**

What is the rule for solving this problem?

**Multiply the triangles in each group by 2**

11. How many dots will be in the sixth group if this pattern is continued? Try to solve this problem just by looking at the pattern.



How many dots will be in the sixth group? **4 dots**

What is the rule for solving this problem? **Subtract 4 dots**