

A photograph of a baking tray lined with aluminum foil, filled with several cookies. The cookies are decorated with different patterns of chocolate chips and M&M's candies. Some cookies have only chocolate chips, while others have a mix of colors. The text 'COOKIE PATTERNS' is overlaid in large, white, bold letters with a black outline.

COOKIE PATTERNS

**WORKSHEETS + TEMPLATE
FREEBIE**



Use to learn making pattern rules.

By Mrs J's Resource Creations ©

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Teacher Resource Instructions

The idea behind these worksheets is to help students develop the ability to come up with a pattern rule for a number sequence. The 'chocolate-chip cookies' are a visual way to help students think about a rule for a number pattern.

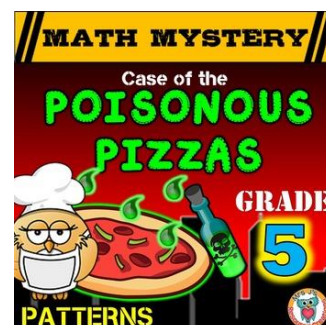
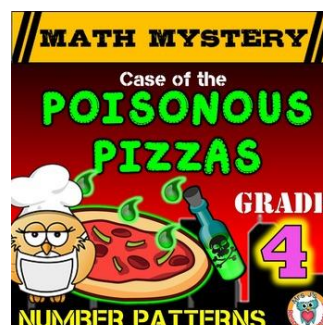
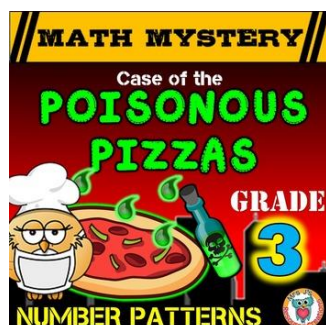
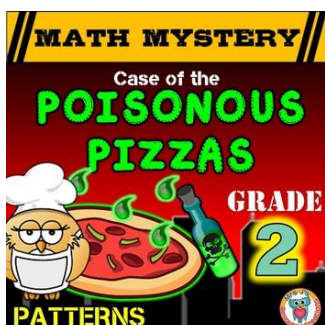
On my website (www.jjresourcecreations.com), I wrote a blog about a teaching instruction suggestion that works with these printables. You can read about it at this link <http://www.jjresourcecreations.com/-blog/cookie-pattern-sequences> if you are interested.

Build up practice towards writing pattern rules using the first two Cookie Number Pattern worksheets. Then, use the third template with empty cookies for students to come up with their own number patterns (including writing the rule).

YOU MAY ALSO LIKE...

If you are looking for more Number Pattern activities for practice and review, you may also be interested in the Math Mystery 'Case of The Poisonous Pizzas.'

Click on the cover image below to find out the pattern skills covered in each grade version. A video introduction is also included to 'hook' your students into the activity.

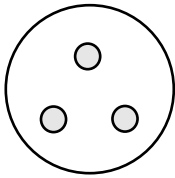


CLICK HERE TO VIEW THE VIDEO HOOK!

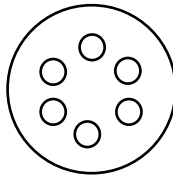
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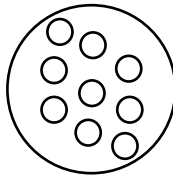
COOKIE NUMBER PATTERNS

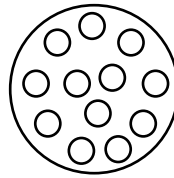
Below are sequences of delicious chocolate-chip cookies. Count the number of chocolate-chips inside each cookie and write the numeral inside the box below each cookie. Then answer the questions about the pattern. (Tip: Shade the little chocolate-chip circles as you count)

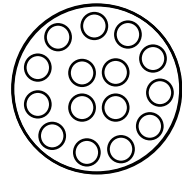


3





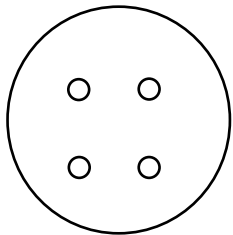


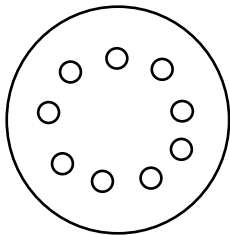


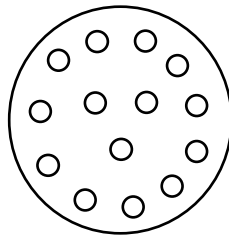
What is the rule for the pattern above? _____

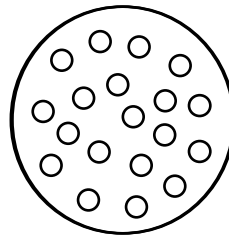
What would be the next three numbers in this pattern sequence? _____

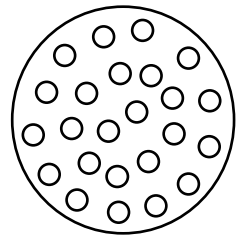
Is this an increasing or decreasing pattern? _____







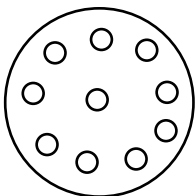


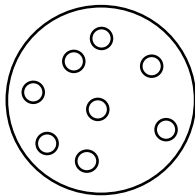


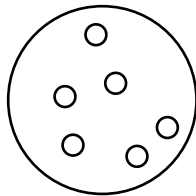
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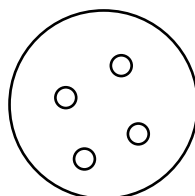
What would be the next three numbers in this pattern sequence? _____

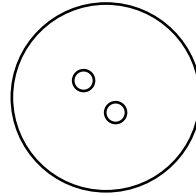
Is this an increasing or decreasing pattern? _____











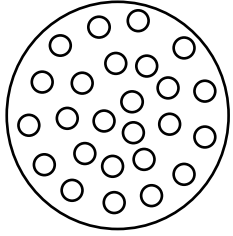
What is the rule for the pattern above? _____

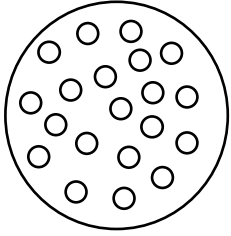
Is this an increasing or decreasing pattern? _____

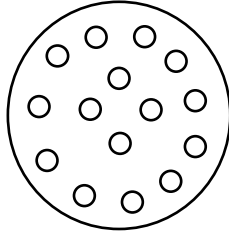
Name: _____

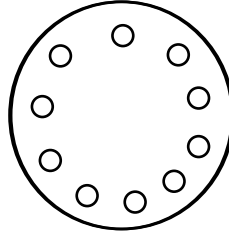
COOKIE NUMBER PATTERNS

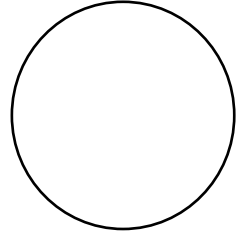
Below are sequences of delicious chocolate-chip cookies. Count the number of chocolate chips inside each cookie and write the numeral inside the box below each cookie. Use this to help complete the pattern with the empty cookies and answer the questions about the pattern. (Tip: Shade the little chocolate-chip circles as you count)







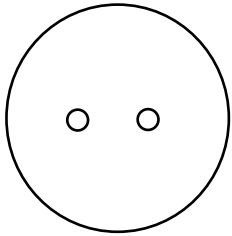


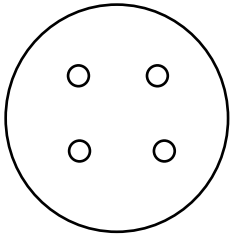


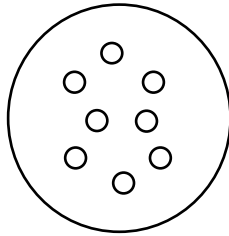
What is the rule for the pattern above? _____

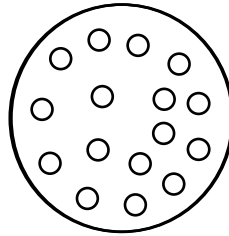
Complete the two empty cookies with chocolate-chips following the pattern. What are the two missing numbers at the end of the sequence? _____

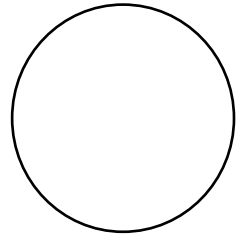
Fill in the missing chocolate-chips on the empty cookie and write the number pattern in the square boxes.

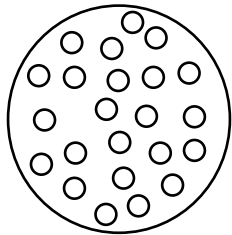


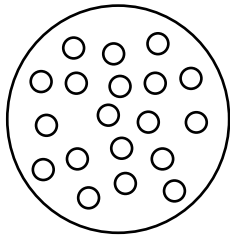


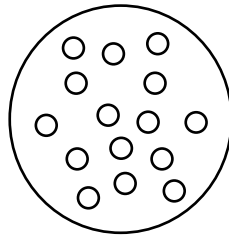


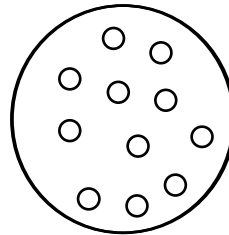


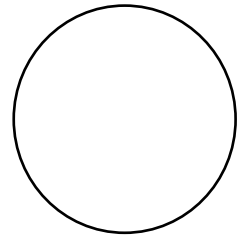


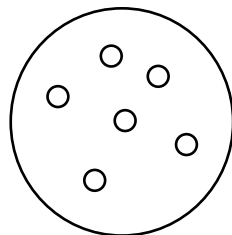


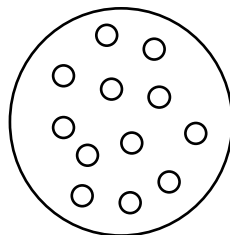


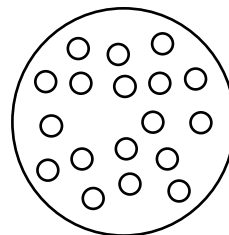


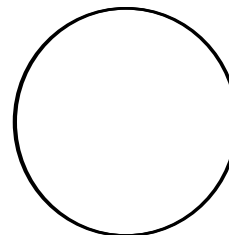


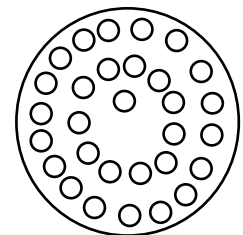








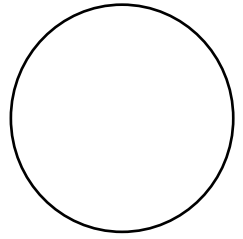
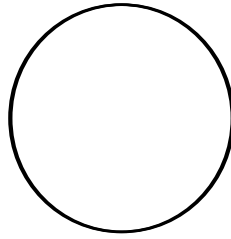
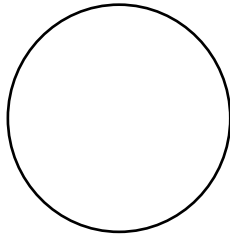
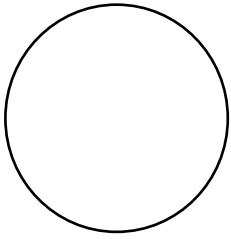
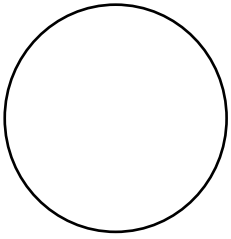




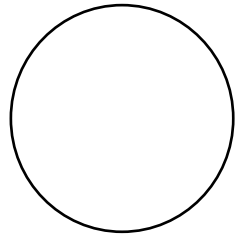
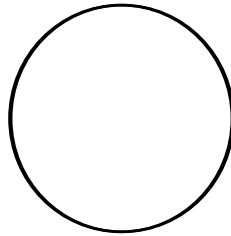
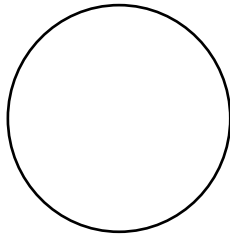
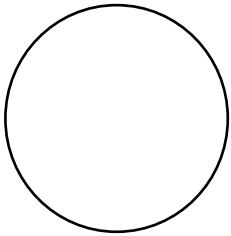
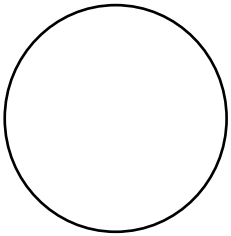
Name: _____

MAKE YOUR OWN COOKIE PATTERNS

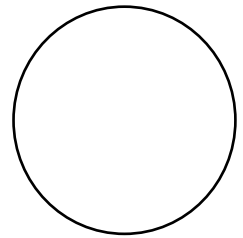
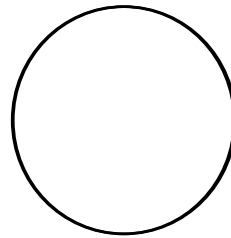
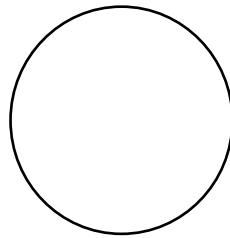
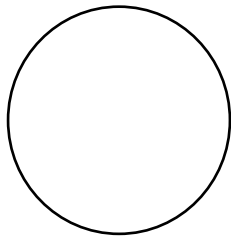
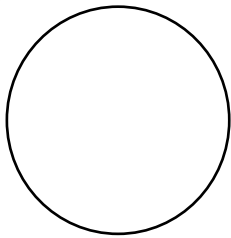
Below are empty sequences of cookies that need to be topped with chocolate-chips. Create your own number pattern for each row and show it with chocolate-chips! Write the pattern rule underneath each sequence.



Pattern Rule: _____



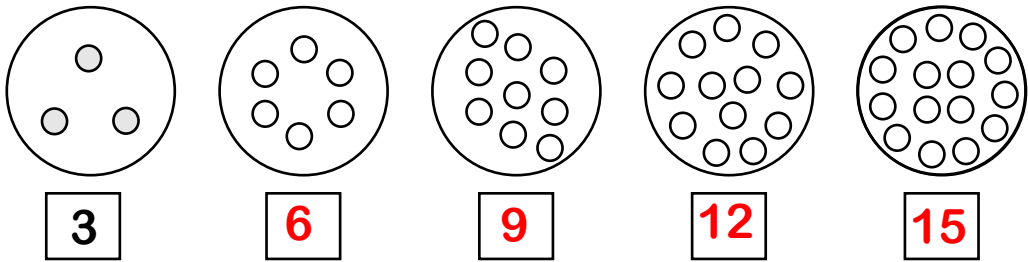
Pattern Rule: _____



Pattern Rule: _____

COOKIE NUMBER PATTERNS

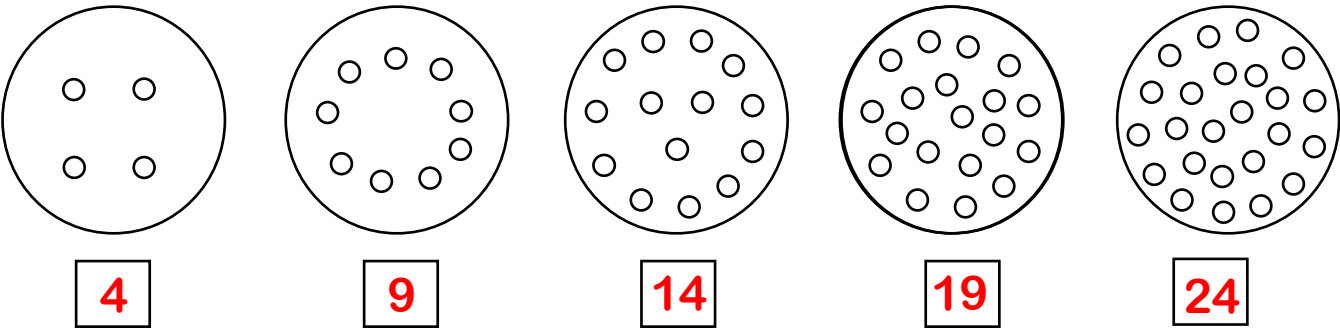
Below are sequences of delicious chocolate-chip cookies. Count the number of chocolate chips inside each cookie and write the numeral inside the box below each cookie. Use this to help you answer the questions about the pattern. (Tip: Shade the little chocolate-chip circles as you count)



What is the rule for the pattern above? Add 3

What would be the next three numbers in this pattern sequence? 18, 21, 24

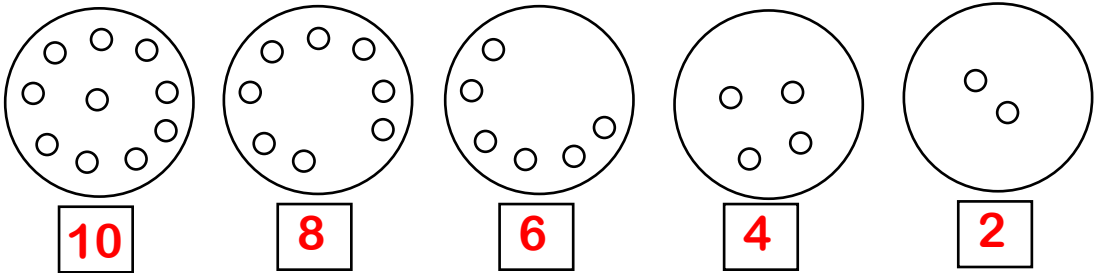
Is this an increasing or decreasing pattern? Increasing



What is the rule for the pattern above? Add 5

What would be the next three numbers in this pattern sequence? 29, 34, 39

Is this an increasing or decreasing pattern? Increasing

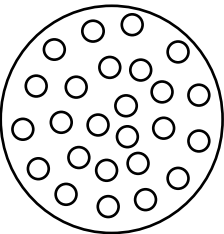


What is the rule for the pattern above? Subtract 2

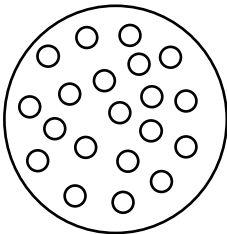
Is this an increasing or decreasing pattern? Decreasing

COOKIE NUMBER PATTERNS

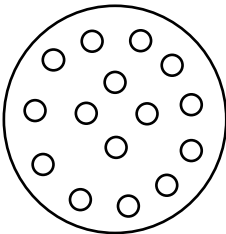
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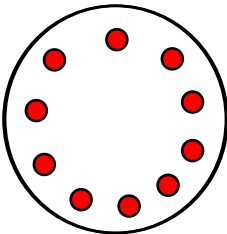
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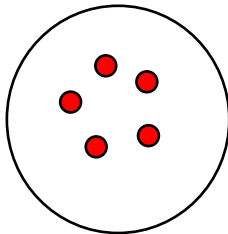
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15



10

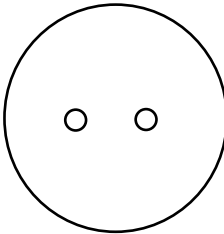


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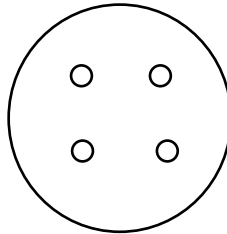
What is the rule for the pattern above? Subtract 5

Complete the two empty cookies with chocolate-chips following the pattern. What are the two missing numbers at the end of the sequence? 10, 5

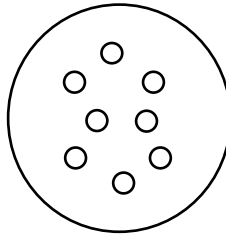
Fill in the missing chocolate-chips on the empty cookie and write the number pattern in the square boxes.



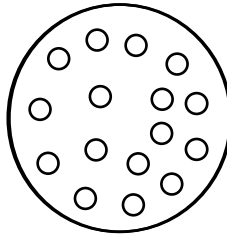
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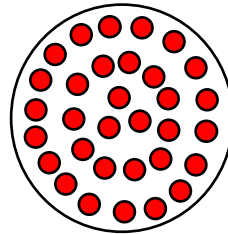
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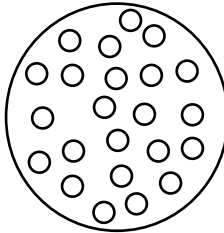
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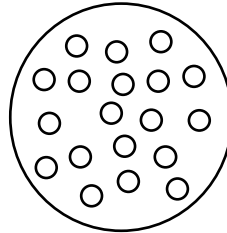
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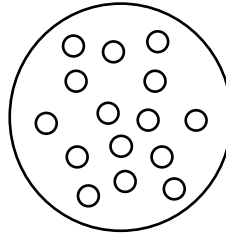
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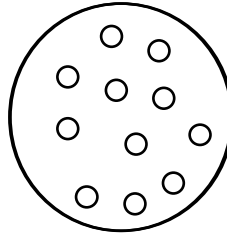
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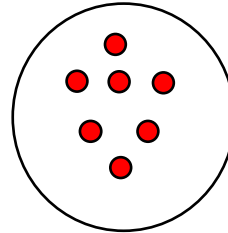
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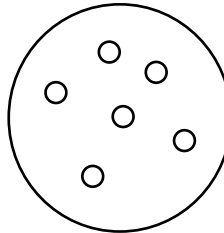
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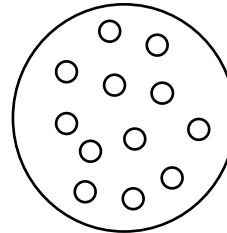
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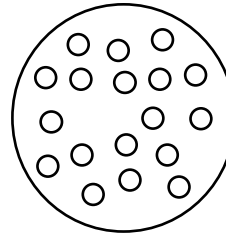
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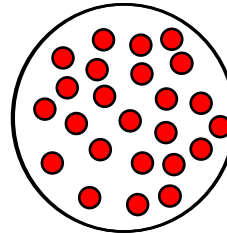
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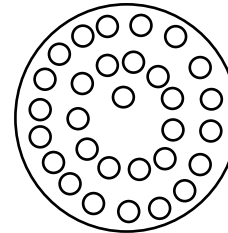
12



18



24



30



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