Name _____ Date _____

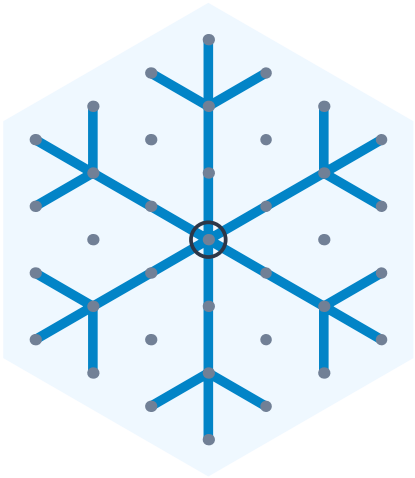
Snowflake Rules

Follow each rule. Draw the snowflake on the dots.

Count dots out from the middle along the arm: dot 1, dot 2, ... Branches grow out of the arm on both sides, slanting out along the dots.

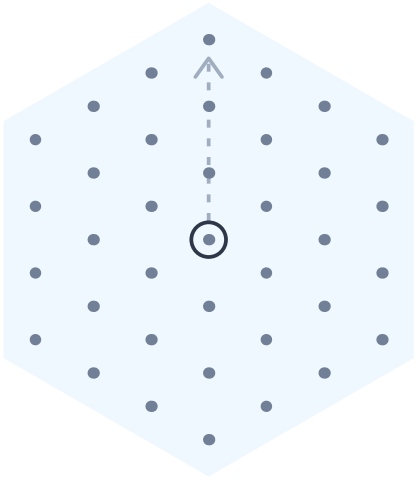
1. Example

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms



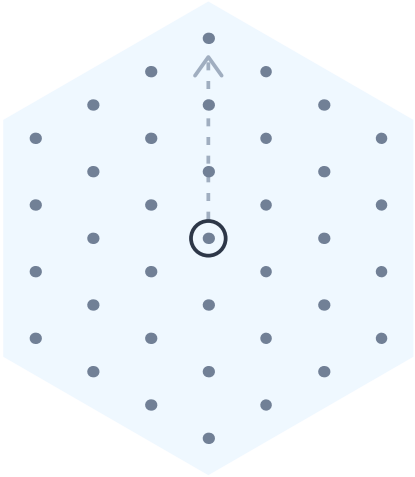
2.

1. Arm: 2 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms



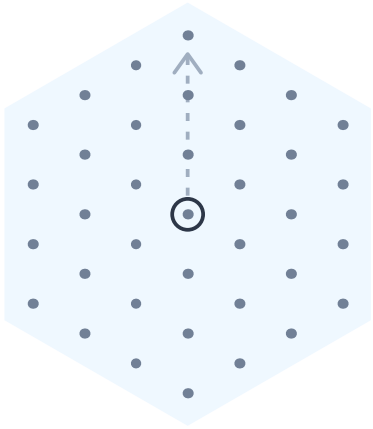
3.

1. Arm: 3 dots long
2. Hexagon: join dot 2 of all 6 arms
3. Do the same on all 6 arms



4.

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms



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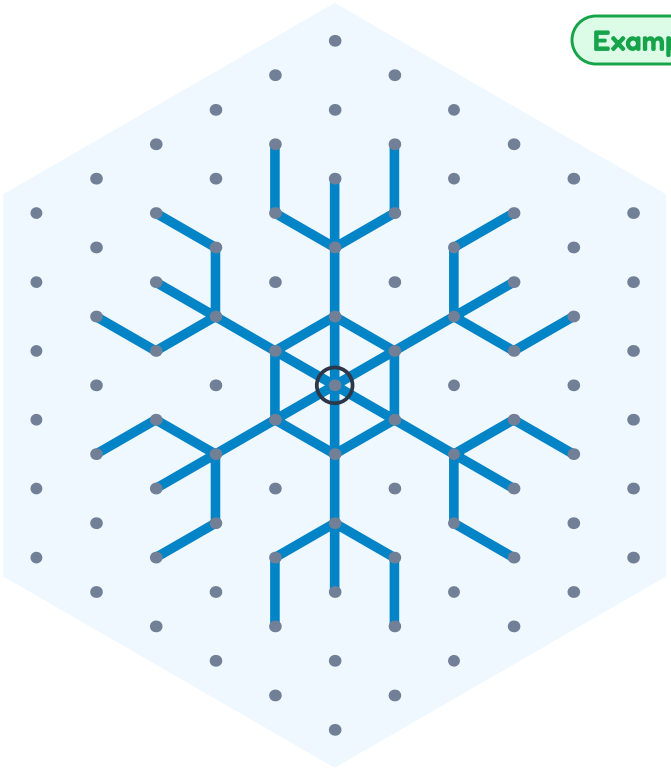
Snowflake Rules

Follow the rules. These rules have more steps.

1.

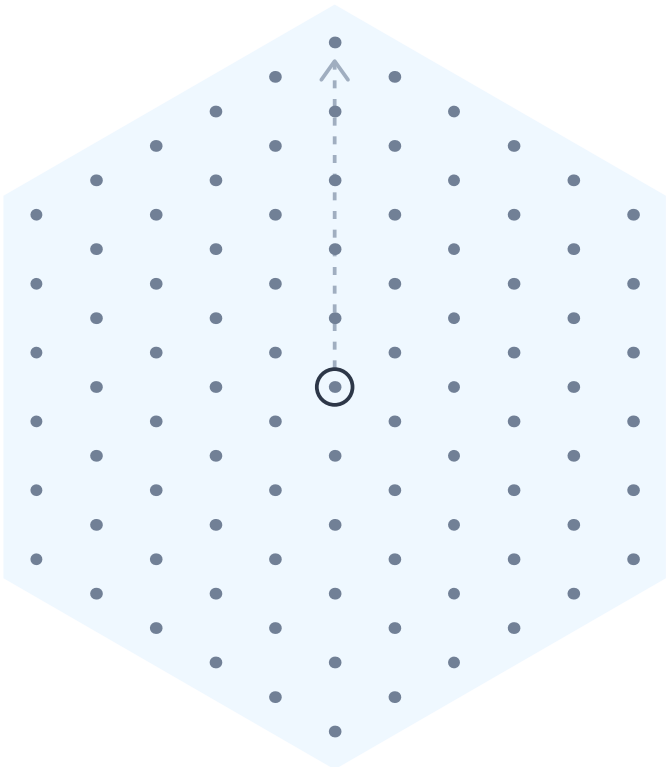
Example

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. At the end of each dot 2 branch: a twig 1 dot long, pointing the way the arm points
4. Hexagon: join dot 1 of all 6 arms
5. Do the same on all 6 arms



2.

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. At dot 4: branches 1 dot long
4. Hexagon: join dot 2 of all 6 arms
5. Do the same on all 6 arms



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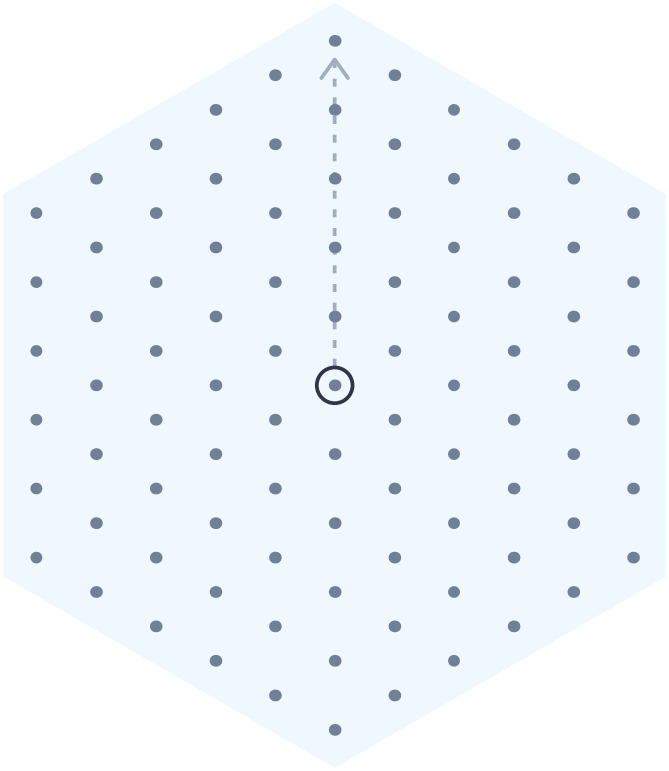
Name _____ Date _____

Snowflake Rules

Follow the rules. Draw each snowflake.

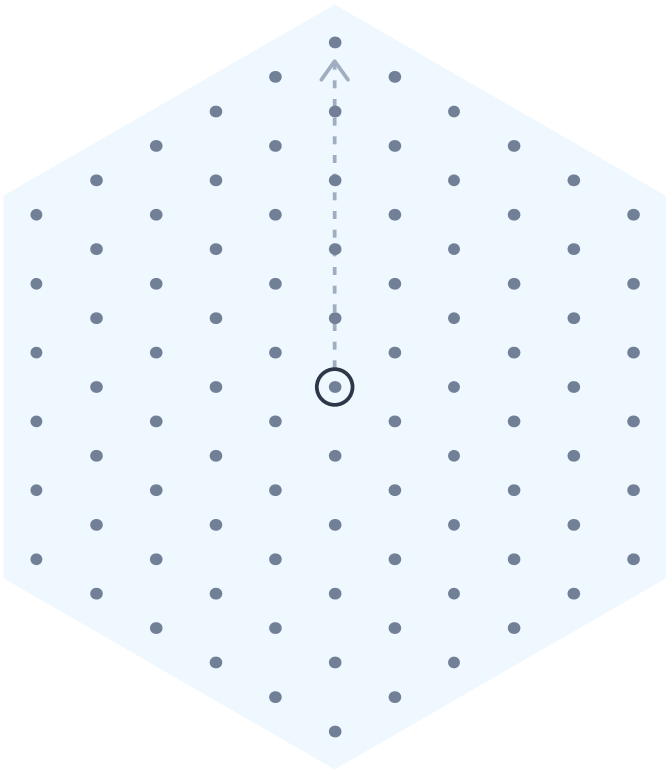
1.

1. Arm: 5 dots long
2. At dot 3: branches 2 dots long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms



2.

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. At dot 3: branches 1 dot long
4. At the end of each dot 3 branch: a twig 1 dot long, pointing the way the arm points
5. Do the same on all 6 arms



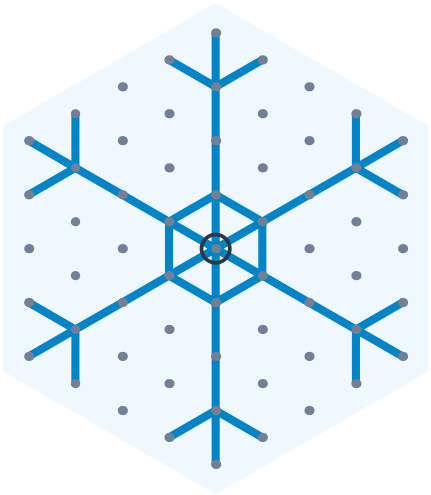
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Name _____ Date _____

Snowflake Rules

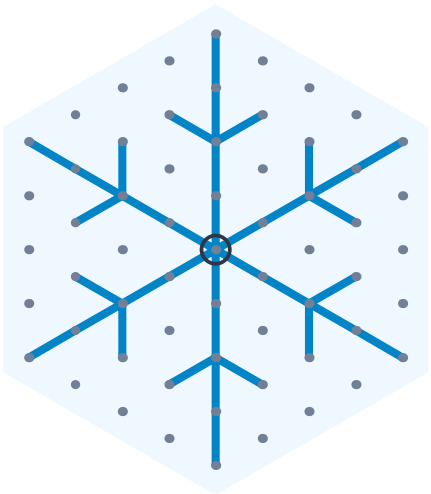
Which rule made each snowflake? One rule is not used.

1. Example



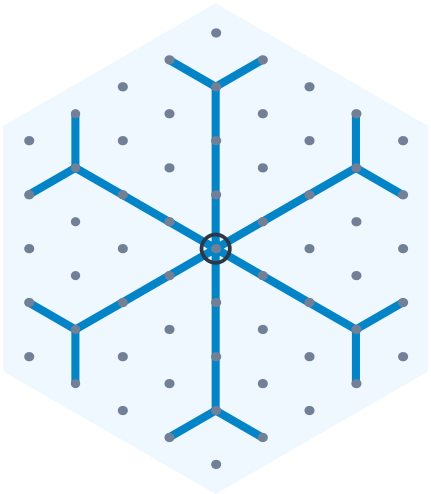
Rule **D**

2.



Rule

3.



Rule

Rule A

1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule B

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

Rule C

1. Arm: 3 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule D

1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms

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Name _____ Date _____

Snowflake Rules

Draw the new rule. Then circle what changed.

1.

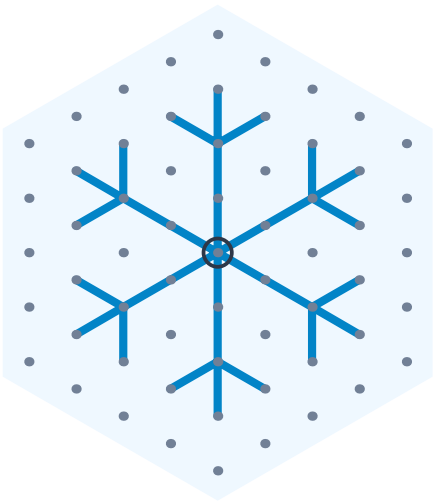
Rule

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

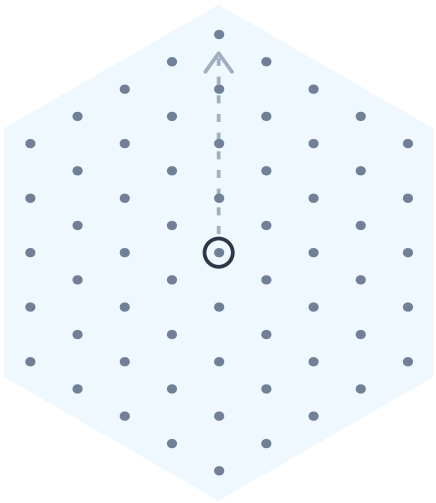
New rule

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

Rule



New rule



What changed? Longer arms Longer branches Branches moved out

2.

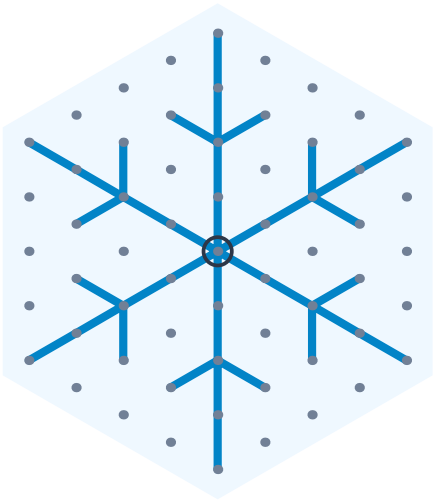
Rule

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

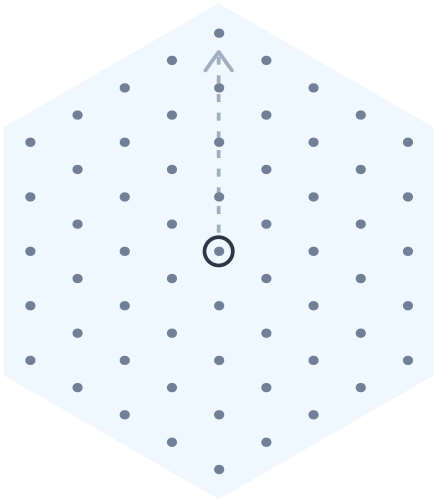
New rule

1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule



New rule



What changed? Longer arms Longer branches Branches moved out

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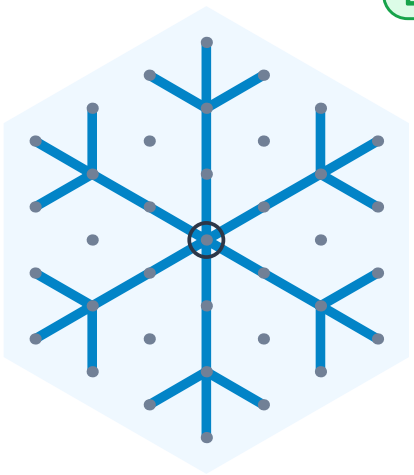
Name _____ Date _____

Snowflake Rules

Count the short lines in one arm. Then find all the lines.

A short line joins two dots that are next to each other. Every arm has the same number, and a snowflake has 6 arms.

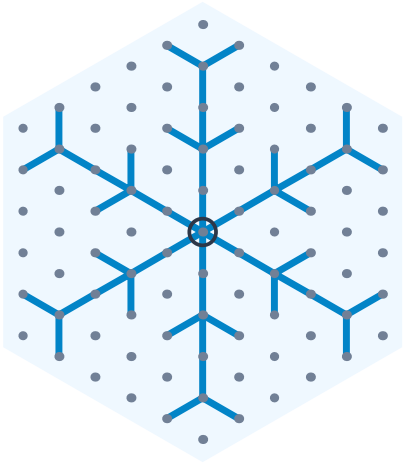
1. Example



Lines in one arm: 5

All: 6 × 5 = 30

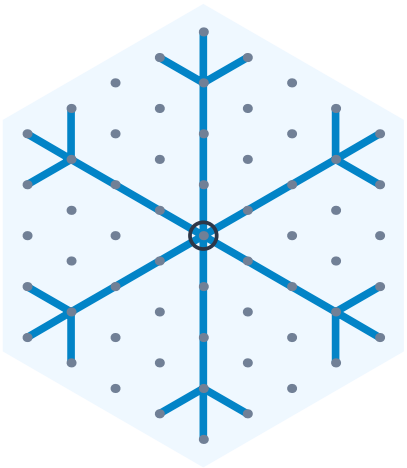
2.



Lines in one arm: _____

All: 6 × _____ = _____

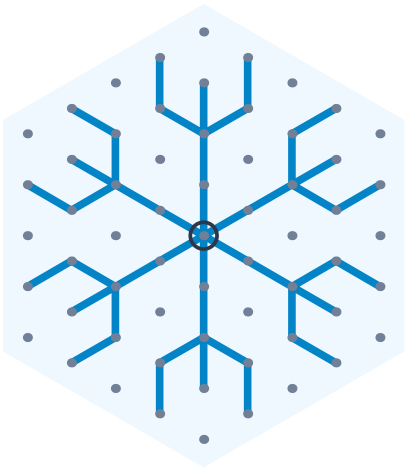
3.



Lines in one arm: _____

All: 6 × _____ = _____

4.



Lines in one arm: _____

All: 6 × _____ = _____

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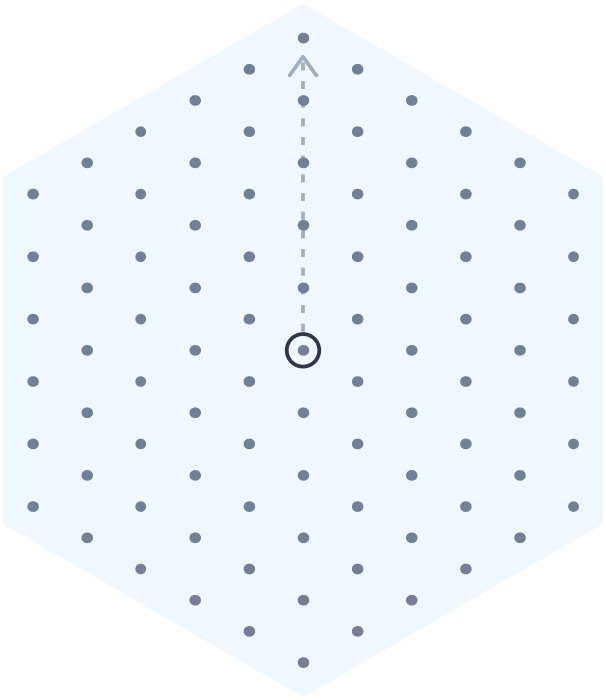
Snowflake Rules

Make your own rule. Then trade rules with a partner.

Write a rule and draw it. Then draw your partner's rule. Do your drawings match? Keep each branch shorter than its dot number.

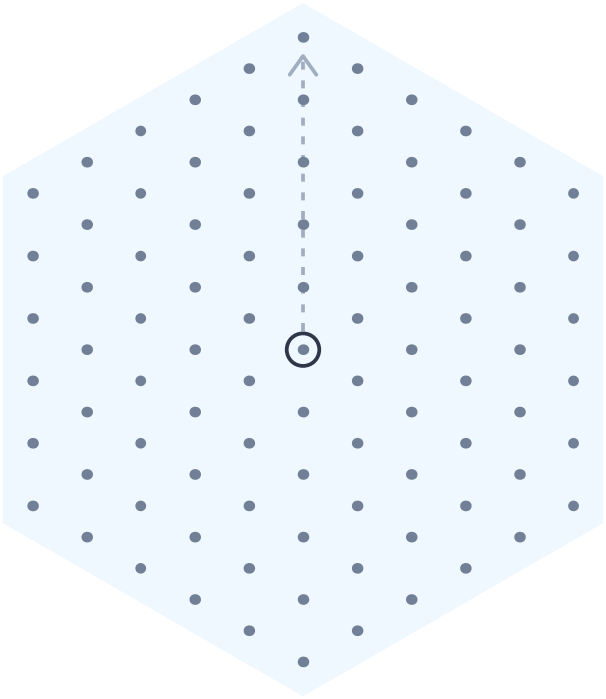
1. My rule

1. Arm: ____ dots long
2. At dot ____ : branches ____ dots long
3. At dot ____ : branches ____ dots long
4. Hexagon? Join dot ____ of all **6** arms
5. Do the same on all **6** arms



2. My partner's rule

1. Arm: ____ dots long
2. At dot ____ : branches ____ dots long
3. At dot ____ : branches ____ dots long
4. Hexagon? Join dot ____ of all **6** arms
5. Do the same on all **6** arms



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Name _____ Date _____

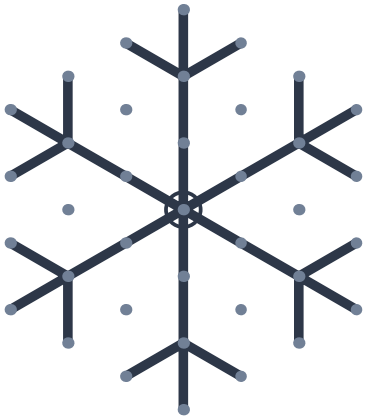
Snowflake Rules

Follow each rule. Draw the snowflake on the dots.

Count dots out from the middle along the arm: dot 1, dot 2, ... Branches grow out of the arm on both sides, slanting out along the dots.

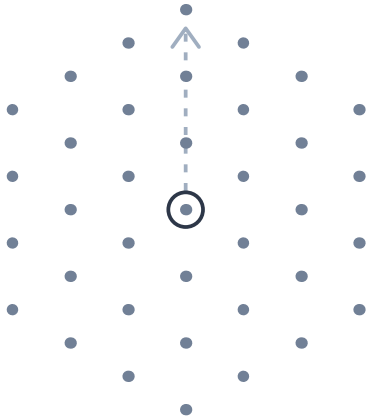
1. Example

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms



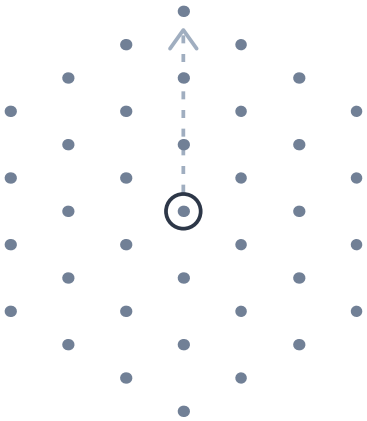
2.

1. Arm: 2 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms



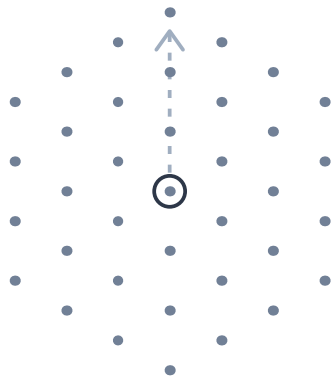
3.

1. Arm: 3 dots long
2. Hexagon: join dot 2 of all 6 arms
3. Do the same on all 6 arms



4.

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms



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Name _____ Date _____

Snowflake Rules

Follow the rules. These rules have more steps.

1.

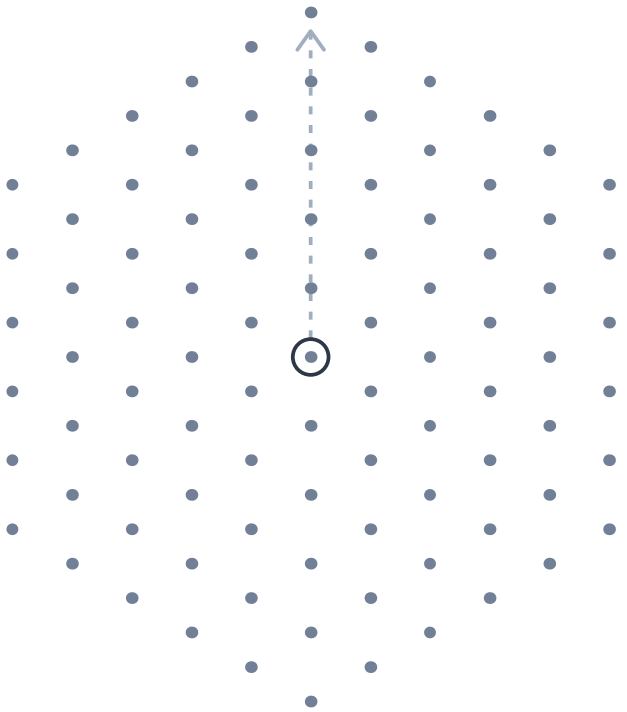
1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. At the end of each dot 2 branch: a twig 1 dot long, pointing the way the arm points
4. Hexagon: join dot 1 of all 6 arms
5. Do the same on all 6 arms

Example



2.

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. At dot 4: branches 1 dot long
4. Hexagon: join dot 2 of all 6 arms
5. Do the same on all 6 arms



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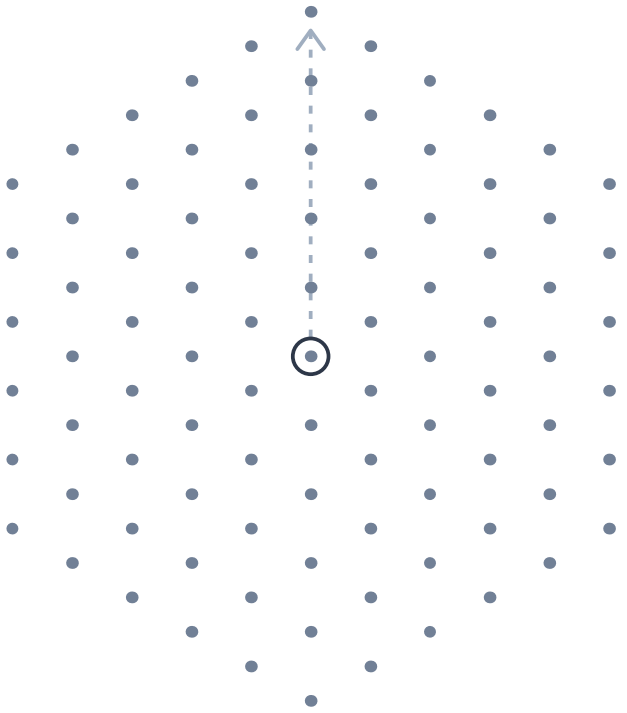
Name _____ Date _____

Snowflake Rules

Follow the rules. Draw each snowflake.

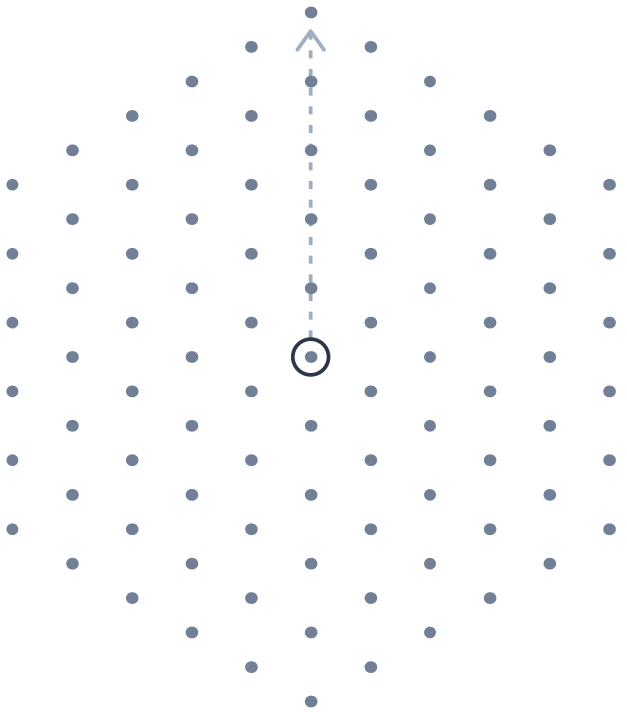
1.

1. Arm: 5 dots long
2. At dot 3: branches 2 dots long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms



2.

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. At dot 3: branches 1 dot long
4. At the end of each dot 3 branch: a twig 1 dot long, pointing the way the arm points
5. Do the same on all 6 arms



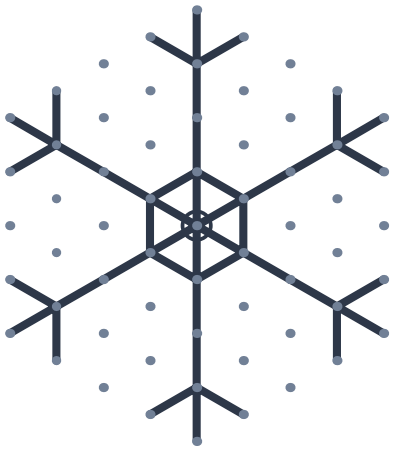
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Name _____ Date _____

Snowflake Rules

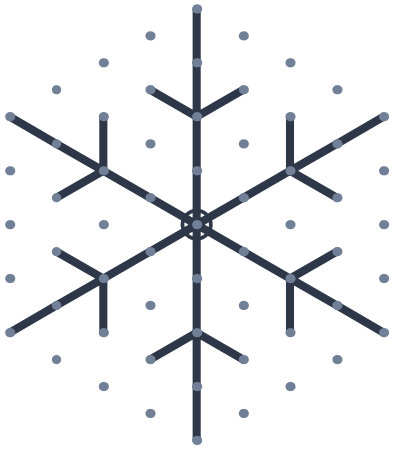
Which rule made each snowflake? One rule is not used.

1. Example



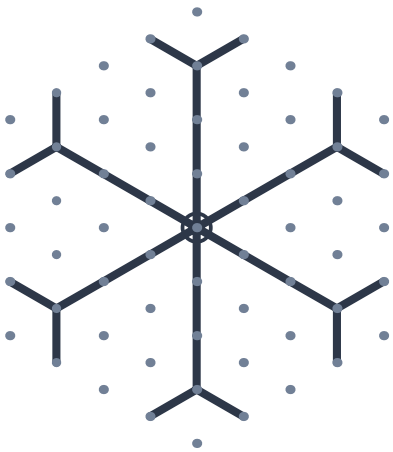
Rule **D**

2.



Rule

3.



Rule

Rule A
1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule B
1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

Rule C
1. Arm: 3 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule D
1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms

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Name _____ Date _____

Snowflake Rules

Draw the new rule. Then circle what changed.

1.

Rule

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

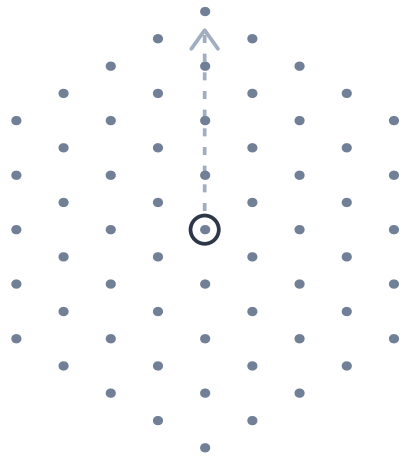
New rule

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

Rule



New rule



What changed? Longer arms Longer branches Branches moved out

2.

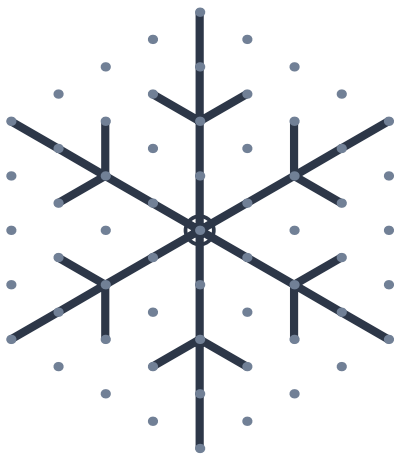
Rule

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

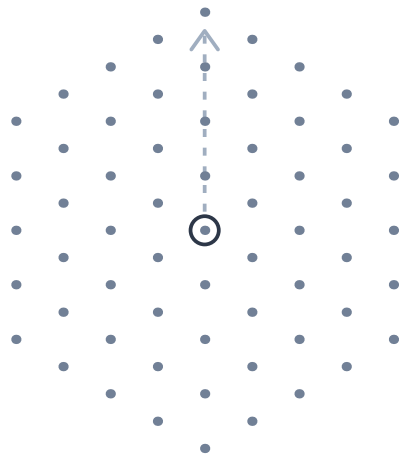
New rule

1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule



New rule



What changed? Longer arms Longer branches Branches moved out

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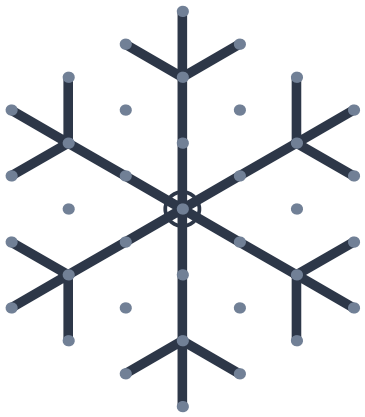
Name _____ Date _____

Snowflake Rules

Count the short lines in one arm. Then find all the lines.

A short line joins two dots that are next to each other. Every arm has the same number, and a snowflake has 6 arms.

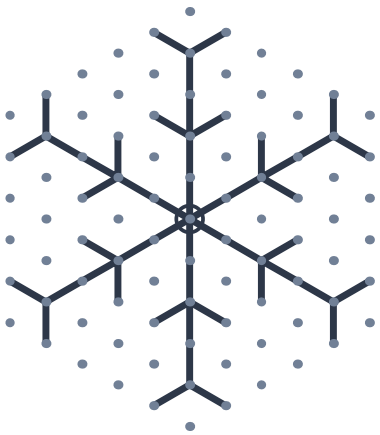
1. Example



Lines in one arm: 5

All: 6 × 5 = 30

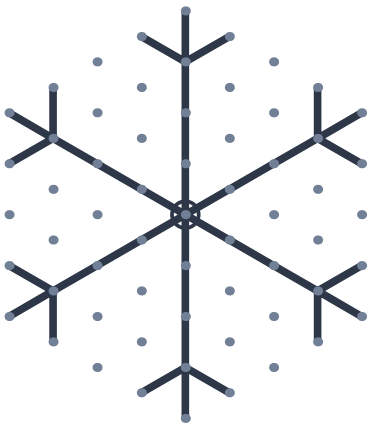
2.



Lines in one arm: _____

All: 6 × _____ = _____

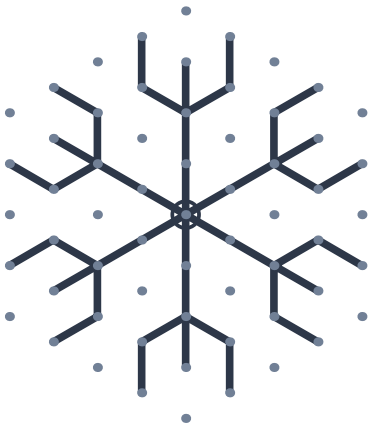
3.



Lines in one arm: _____

All: 6 × _____ = _____

4.



Lines in one arm: _____

All: 6 × _____ = _____

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Name _____ Date _____

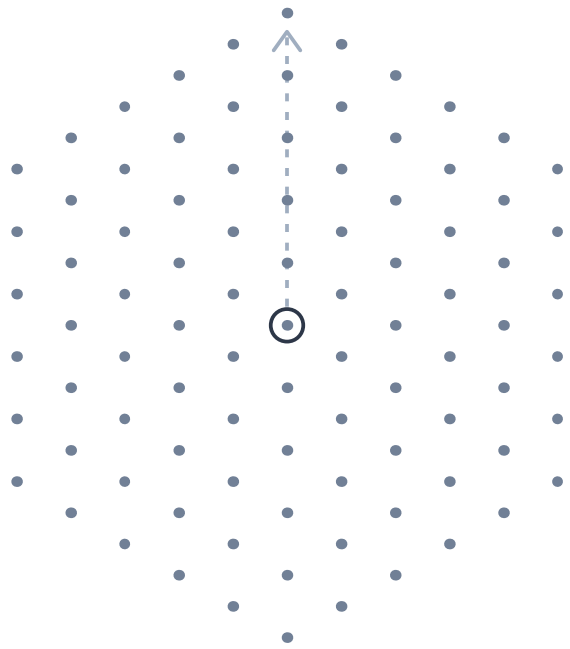
Snowflake Rules

Make your own rule. Then trade rules with a partner.

Write a rule and draw it. Then draw your partner's rule. Do your drawings match? Keep each branch shorter than its dot number.

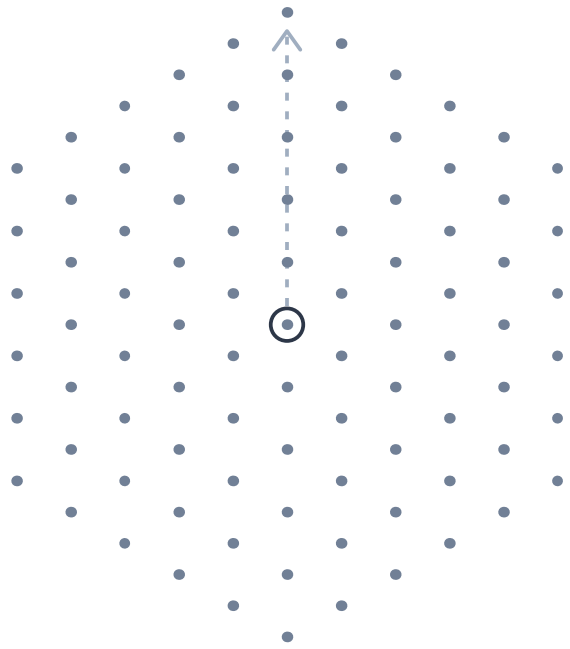
1. My rule

1. Arm: ____ dots long
2. At dot ____ : branches ____ dots long
3. At dot ____ : branches ____ dots long
4. Hexagon? Join dot ____ of all **6** arms
5. Do the same on all **6** arms



2. My partner's rule

1. Arm: ____ dots long
2. At dot ____ : branches ____ dots long
3. At dot ____ : branches ____ dots long
4. Hexagon? Join dot ____ of all **6** arms
5. Do the same on all **6** arms



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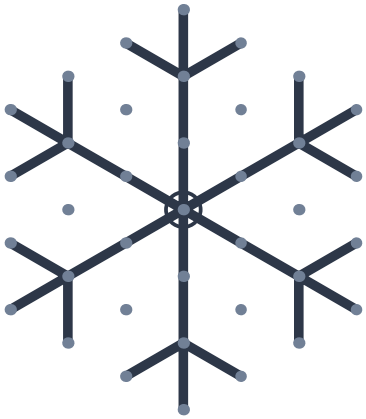
Snowflake Rules

Follow each rule. Draw the snowflake on the dots.

Count dots out from the middle along the arm: dot 1, dot 2, ... Branches grow out of the arm on both sides, slanting out along the dots.

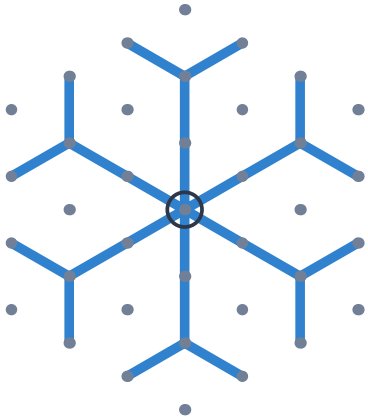
1. Example

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms



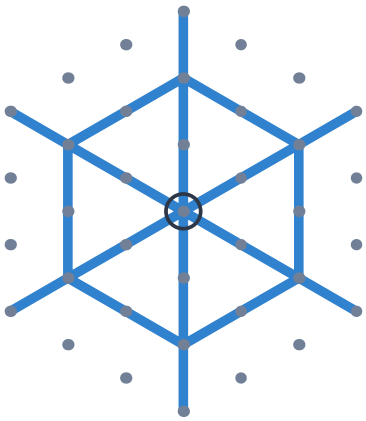
2.

1. Arm: 2 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms



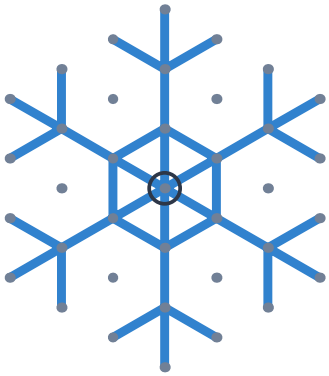
3.

1. Arm: 3 dots long
2. Hexagon: join dot 2 of all 6 arms
3. Do the same on all 6 arms



4.

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms



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Snowflake Rules

Follow the rules. These rules have more steps.

1.

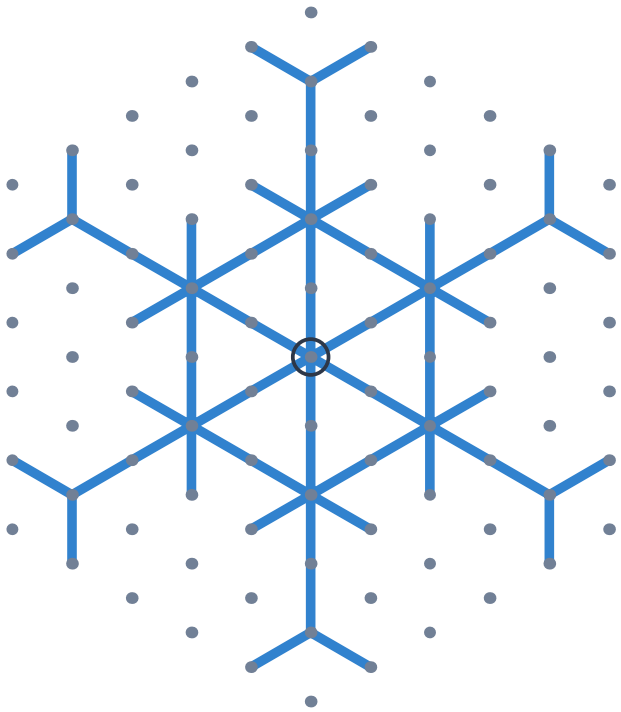
1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. At the end of each dot 2 branch: a twig 1 dot long, pointing the way the arm points
4. Hexagon: join dot 1 of all 6 arms
5. Do the same on all 6 arms

Example



2.

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. At dot 4: branches 1 dot long
4. Hexagon: join dot 2 of all 6 arms
5. Do the same on all 6 arms



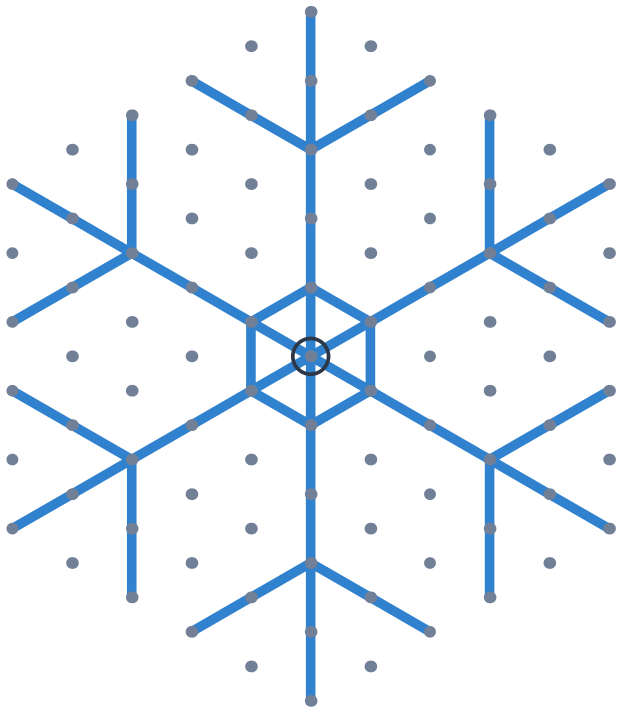
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Snowflake Rules

Follow the rules. Draw each snowflake.

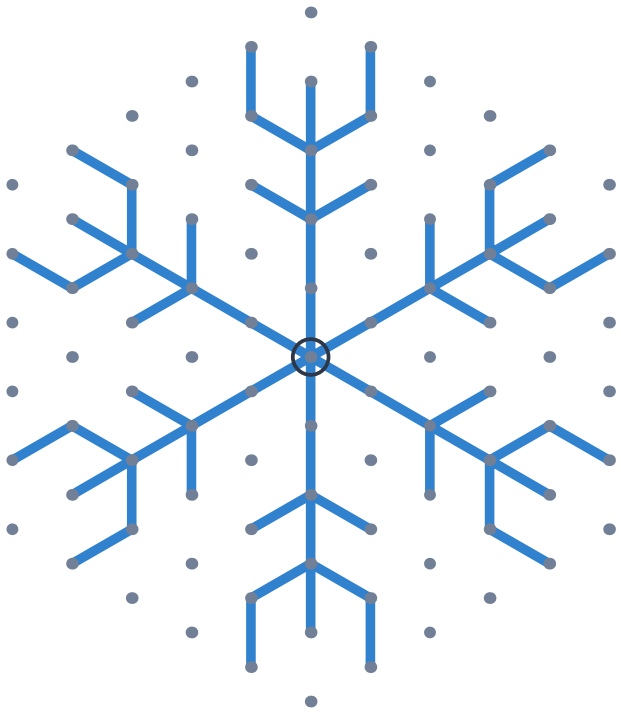
1.

1. Arm: 5 dots long
2. At dot 3: branches 2 dots long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms



2.

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. At dot 3: branches 1 dot long
4. At the end of each dot 3 branch: a twig 1 dot long, pointing the way the arm points
5. Do the same on all 6 arms

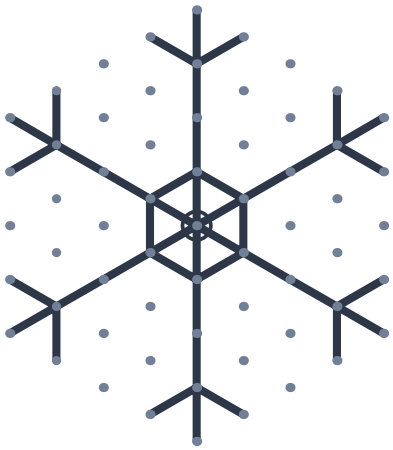


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Snowflake Rules

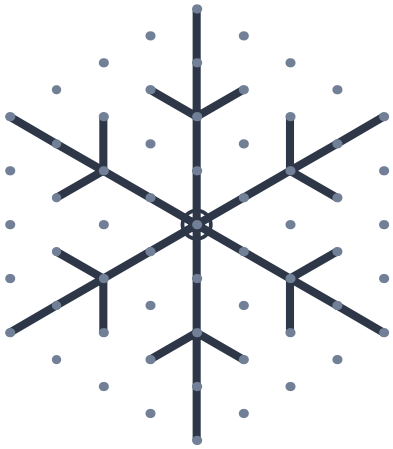
Which rule made each snowflake? One rule is not used.

1. Example



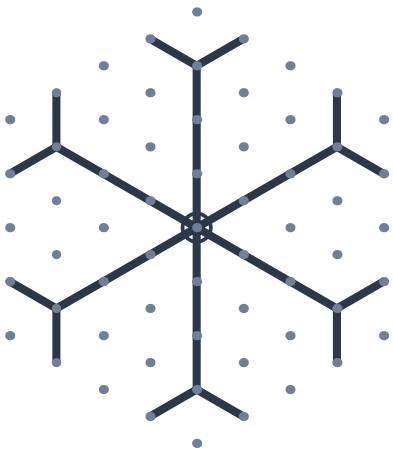
Rule: **D**

2.



Rule: **B**

3.



Rule: **C**

Rule A
1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule B
1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

Rule C
1. Arm: 3 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule D
1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Hexagon: join dot 1 of all 6 arms
4. Do the same on all 6 arms

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Snowflake Rules

Draw the new rule. Then circle what changed.

1.

Rule

1. Arm: 3 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

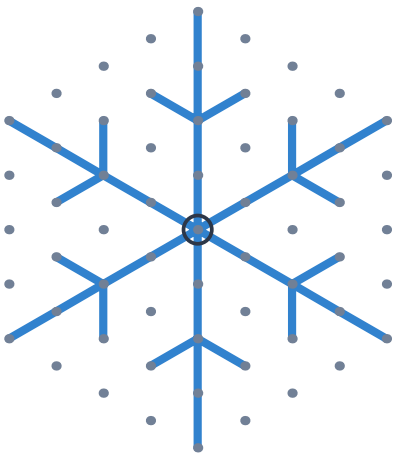
New rule

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

Rule



New rule



What changed? (Longer arms) Longer branches Branches moved out

2.

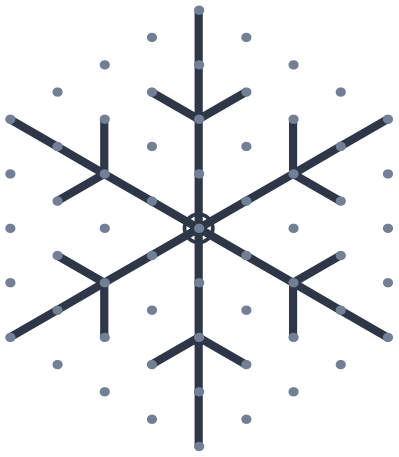
Rule

1. Arm: 4 dots long
2. At dot 2: branches 1 dot long
3. Do the same on all 6 arms

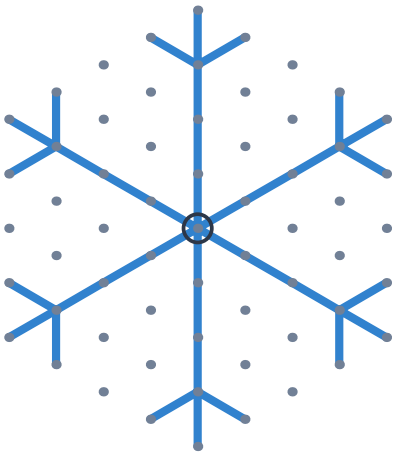
New rule

1. Arm: 4 dots long
2. At dot 3: branches 1 dot long
3. Do the same on all 6 arms

Rule



New rule



What changed? Longer arms Longer branches (Branches moved out)

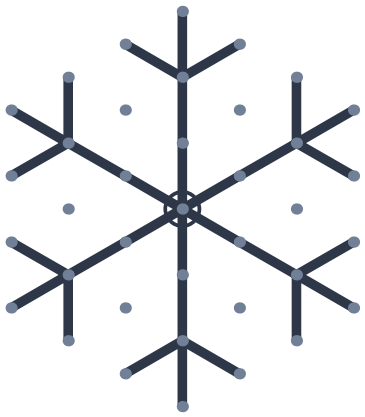
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Snowflake Rules

Count the short lines in one arm. Then find all the lines.

A short line joins two dots that are next to each other. Every arm has the same number, and a snowflake has 6 arms.

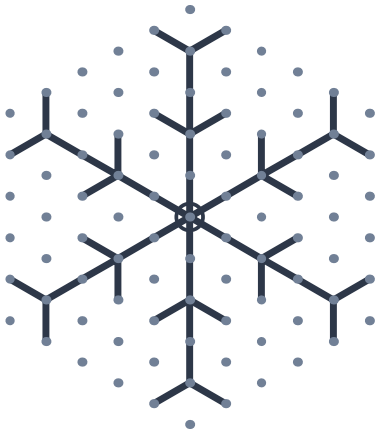
1. Example



Lines in one arm: 5

All: 6 × 5 = 30

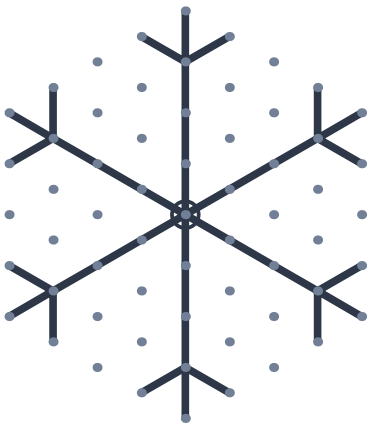
2.



Lines in one arm: 8

All: 6 × 8 = 48

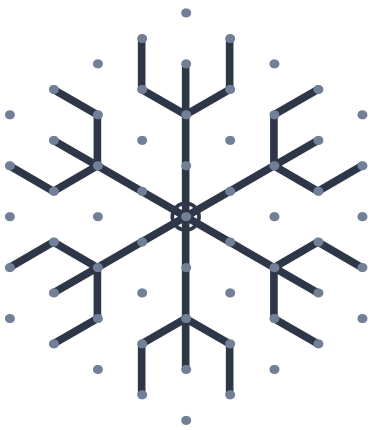
3.



Lines in one arm: 6

All: 6 × 6 = 36

4.



Lines in one arm: 7

All: 6 × 7 = 42

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