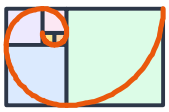
Name _____ Date _____



Fibonacci Day Math

Add the two numbers before to find the next number.

The Fibonacci sequence starts **1**, **1**. Every number after that is the two numbers before it added together.

1	1	2	3	5	8	13	21
		1 + 1	1 + 2	2 + 3	3 + 5	5 + 8	8 + 13

1.	1	1	2	3	5			
2.	3	5	8		21		55	
3.	13	21			89			377
4.	34	55						

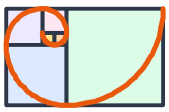
Work backward by taking away: 34 – 21 = 13, so 13 comes before 21.

5.				21	34			
6.		34		89				610
7.						21		55

8. What is the first Fibonacci number that is more than **1,000**? _____

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Name _____ Date _____



Fibonacci Day Math

Same rule, new start: add the two numbers before.

1.	2	1						
2.	3	3						
3.	1		5					
4.	10	10						

5. How is row **4** like the Fibonacci sequence **1**, **1**, **2**, **3**, **5**, ...?

_____

6. Make your own: pick two numbers to start, then use the rule.

7. **Write O under each odd number, E under each even one.** Example

1	1	2	3	5	8	13	21	34	55	89	144
O											

8. What pattern do the letters make?

_____

9. Is the **30**th Fibonacci number odd or even? **odd** **even**

10. Is the **31**st Fibonacci number odd or even? **odd** **even**

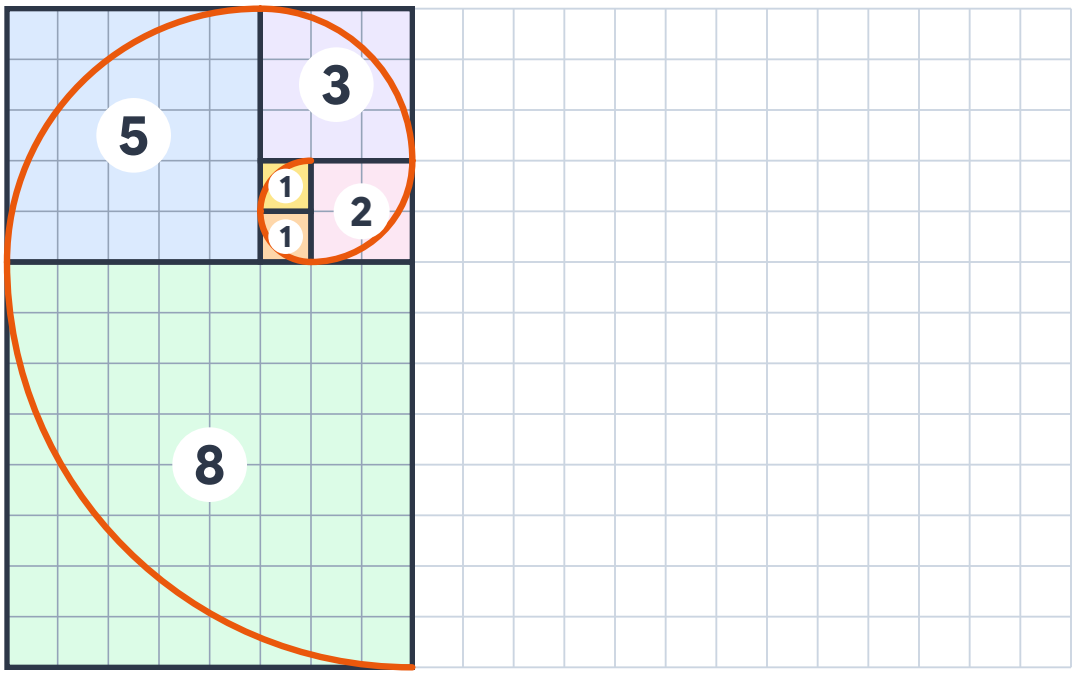
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Name _____ Date _____

Fibonacci Day Math

Draw the next square. Then fill in the table.

The squares have sides **1**, **1**, **2**, **3**, **5** and **8**. Draw a square with side **13** in the empty part.



Example

Square	1	2	3	4	5	6	7
Side of the new square	1						
Area of the new square	1						
Short side of the rectangle	1						
Long side of the rectangle	1						
Area of the rectangle	1						
Perimeter of the rectangle	4						

1. Add the areas of squares **1** to **6**. The total is _____
2. Which rectangle in the table has the same area? _____
3. Square **8** has side **21**. Then the rectangle is _____

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Name _____ Date _____

Fibonacci Day Math

A rabbit puzzle: count the pairs of rabbits each month.

In **1202**, Leonardo of Pisa (known today as Fibonacci) wrote a book with a rabbit puzzle. Here is one like it:

1. Start with one baby pair of rabbits in month **1**.
2. A baby pair grows up in one month.
3. Each month, every grown-up pair has a baby pair.
4. No rabbits leave.

 a grown-up pair

 a baby pair

Month 1 

Month 2 

Month 3 

Month 4 

Month 5 

Example

Month	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Grown-up pairs	**0**	**1**								
Baby pairs	**1**	**0**								
Pairs in all	**1**	**1**								

1. How many pairs are there in all in month **12**? _____
2. In which month are there **34** pairs in all? _____
3. Look at the Pairs in all row. What do you notice?

_____

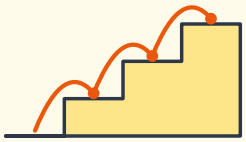
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Name _____ Date _____

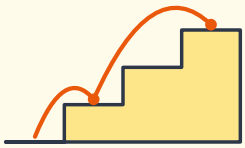
Fibonacci Day Math

Climb 1 or 2 stairs at a time. Find every way.

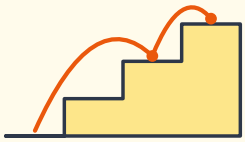
Example There are **3** ways to climb **3** stairs:



1 + 1 + 1



1 + 2



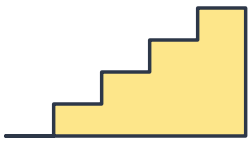
2 + 1

1. **Write every way to climb 2 stairs.** How many ways? _____



_____ _____

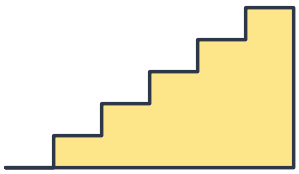
2. **Write every way to climb 4 stairs.** How many ways? _____



_____ _____ _____

_____ _____ _____

3. **Write every way to climb 5 stairs.** How many ways? _____



_____ _____ _____

_____ _____ _____

_____ _____ _____

4. **Fill in the table. Use the pattern for 6, 7 and 8 stairs.**

Stairs	1	2	3	4	5	6	7	8
Ways to climb			3					

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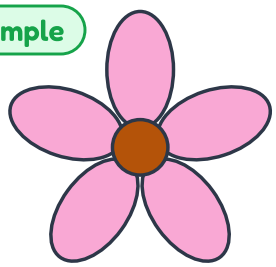
Name _____ Date _____

Fibonacci Day Math

Find Fibonacci numbers in flowers, dates and lists.

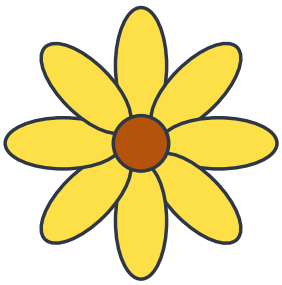
1. Many flowers have a Fibonacci number of petals, but not all. Count the petals. Is it a Fibonacci number?

Example



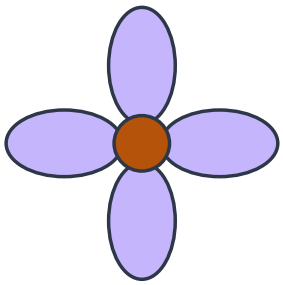
5 petals

(Yes) No



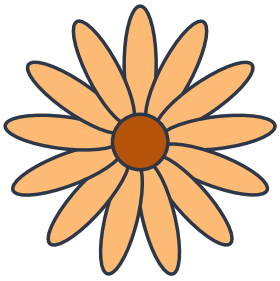
_____ petals

Yes No



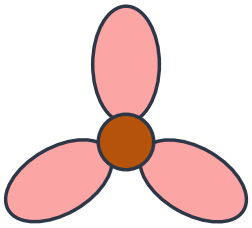
_____ petals

Yes No



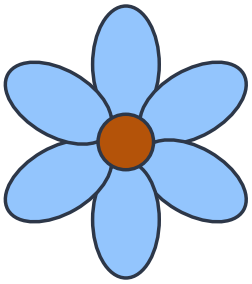
_____ petals

Yes No



_____ petals

Yes No



_____ petals

Yes No

2. Fibonacci Day is November **23**, written **11/23**: **1**, **1**, **2**, **3**. Circle each date whose month and day are Fibonacci numbers next to each other.

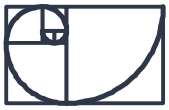
2/3	**3/5**	**4/5**	**5/8**	**6/8**	**8/13**
February **3**	March **5**	April **5**	May **8**	June **8**	August **13**

3. Circle the Fibonacci numbers.

4 8 12 13 20 21 30 34 50 55 89 100

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Name _____ Date _____



Fibonacci Day Math

Add the two numbers before to find the next number.

The Fibonacci sequence starts **1**, **1**. Every number after that is the two numbers before it added together.

1	1	2	3	5	8	13	21
		1 + 1	1 + 2	2 + 3	3 + 5	5 + 8	8 + 13

1.	1	1	2	3	5			
2.	3	5	8		21		55	
3.	13	21			89			377
4.	34	55						

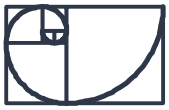
Work backward by taking away: 34 – 21 = 13, so 13 comes before 21.

5.				21	34			
6.		34		89				610
7.						21		55

8. What is the first Fibonacci number that is more than **1,000**? _____

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Name _____ Date _____



Fibonacci Day Math

Same rule, new start: add the two numbers before.

1.	**2**	**1**						
2.	**3**	**3**						
3.	**1**		**5**					
4.	**10**	**10**						

5. How is row **4** like the Fibonacci sequence **1**, **1**, **2**, **3**, **5**, ...?

_____

6. Make your own: pick two numbers to start, then use the rule.

7. **Write O under each odd number, E under each even one.** Example

1	**1**	**2**	**3**	**5**	**8**	**13**	**21**	**34**	**55**	**89**	**144**
O											

8. What pattern do the letters make?

_____

9. Is the **30**th Fibonacci number odd or even? **odd** **even**

10. Is the **31**st Fibonacci number odd or even? **odd** **even**

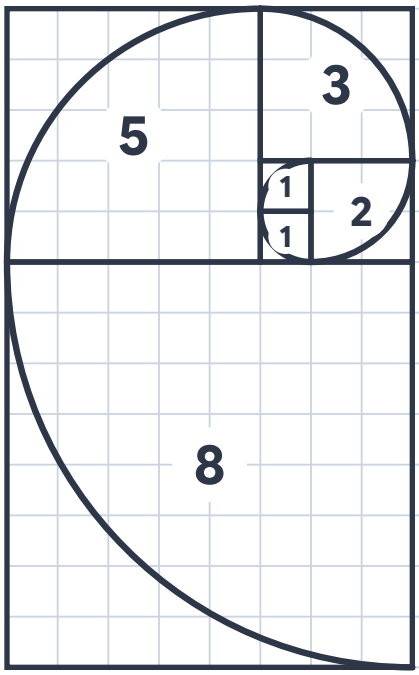
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Name _____ Date _____

Fibonacci Day Math

Draw the next square. Then fill in the table.

The squares have sides **1**, **1**, **2**, **3**, **5** and **8**. Draw a square with side **13** in the empty part.



Example

Square	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Side of the new square	**1**						
Area of the new square	**1**						
Short side of the rectangle	**1**						
Long side of the rectangle	**1**						
Area of the rectangle	**1**						
Perimeter of the rectangle	**4**						

1. Add the areas of squares **1** to **6**. The total is _____

2. Which rectangle in the table has the same area? _____

3. Square **8** has side **21**. Then the rectangle is _____

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Name _____ Date _____

Fibonacci Day Math

A rabbit puzzle: count the pairs of rabbits each month.

In **1202**, Leonardo of Pisa (known today as Fibonacci) wrote a book with a rabbit puzzle. Here is one like it:

1. Start with one baby pair of rabbits in month **1**.
2. A baby pair grows up in one month.
3. Each month, every grown-up pair has a baby pair.
4. No rabbits leave.

 a grown-up pair

 a baby pair

Month 1 

Month 2 

Month 3 

Month 4 

Month 5 

Example

Month	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Grown-up pairs	**0**	**1**								
Baby pairs	**1**	**0**								
Pairs in all	**1**	**1**								

1. How many pairs are there in all in month **12**? _____
2. In which month are there **34** pairs in all? _____
3. Look at the Pairs in all row. What do you notice?

_____

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Name _____ Date _____

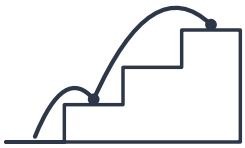
Fibonacci Day Math

Climb 1 or 2 stairs at a time. Find every way.

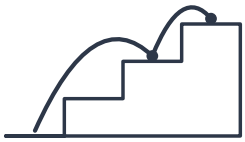
Example **There are 3 ways to climb 3 stairs:**



1 + 1 + 1



1 + 2



2 + 1

1. Write every way to climb 2 stairs. How many ways? _____



_____ _____

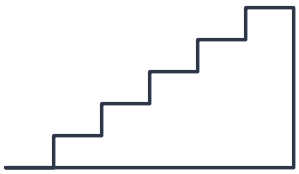
2. Write every way to climb 4 stairs. How many ways? _____



_____ _____ _____

_____ _____ _____

3. Write every way to climb 5 stairs. How many ways? _____



_____ _____ _____

_____ _____ _____

_____ _____ _____

4. Fill in the table. Use the pattern for 6, 7 and 8 stairs.

Stairs	1	2	3	4	5	6	7	8
Ways to climb			3					

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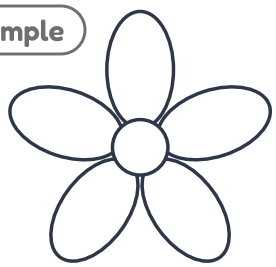
Name _____ Date _____

Fibonacci Day Math

Find Fibonacci numbers in flowers, dates and lists.

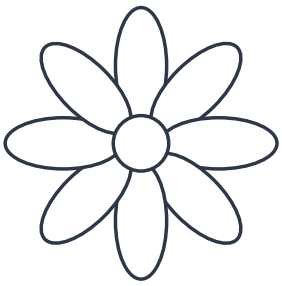
1. Many flowers have a Fibonacci number of petals, but not all. Count the petals. Is it a Fibonacci number?

Example



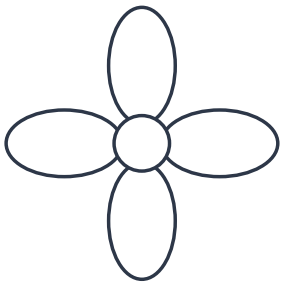
5 petals

(Yes) No



_____ petals

Yes No



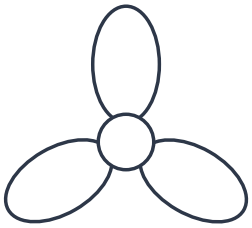
_____ petals

Yes No



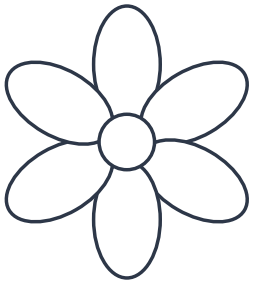
_____ petals

Yes No



_____ petals

Yes No



_____ petals

Yes No

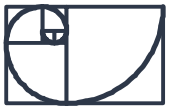
2. Fibonacci Day is November **23**, written **11/23**: **1**, **1**, **2**, **3**. Circle each date whose month and day are Fibonacci numbers next to each other.

2/3	**3/5**	**4/5**	**5/8**	**6/8**	**8/13**
February **3**	March **5**	April **5**	May **8**	June **8**	August **13**

3. Circle the Fibonacci numbers.

4 8 12 13 20 21 30 34 50 55 89 100

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Fibonacci Day Math

Add the two numbers before to find the next number.

The Fibonacci sequence starts **1**, **1**. Every number after that is the two numbers before it added together.

1	1	2	3	5	8	13	21
		1 + 1	1 + 2	2 + 3	3 + 5	5 + 8	8 + 13

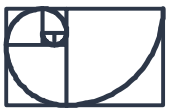
1.	1	1	2	3	5	8	13	21
2.	3	5	8	13	21	34	55	89
3.	13	21	34	55	89	144	233	377
4.	34	55	89	144	233	377	610	987

Work backward by taking away: 34 – 21 = 13, so 13 comes before 21.

5.	5	8	13	21	34	55	89	144
6.	21	34	55	89	144	233	377	610
7.	2	3	5	8	13	21	34	55

8. What is the first Fibonacci number that is more than **1,000**? **1,597**

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Fibonacci Day Math

Same rule, new start: add the two numbers before.

1.	2	1	3	4	7	11	18	29
2.	3	3	6	9	15	24	39	63
3.	1	4	5	9	14	23	37	60
4.	10	10	20	30	50	80	130	210

5. How is row **4** like the Fibonacci sequence **1**, **1**, **2**, **3**, **5**, ...?

Each number is 10 times a Fibonacci number.

6. Make your own: pick two numbers to start, then use the rule.

One way

4	2	6	8	14	22	36	58

7. **Write O under each odd number, E under each even one.** Example

1	1	2	3	5	8	13	21	34	55	89	144
O	O	E	O	O	E	O	O	E	O	O	E

8. What pattern do the letters make?

O, O, E and then again: odd, odd, even, ...

9. Is the **30**th Fibonacci number odd or even? **odd** **(even)**

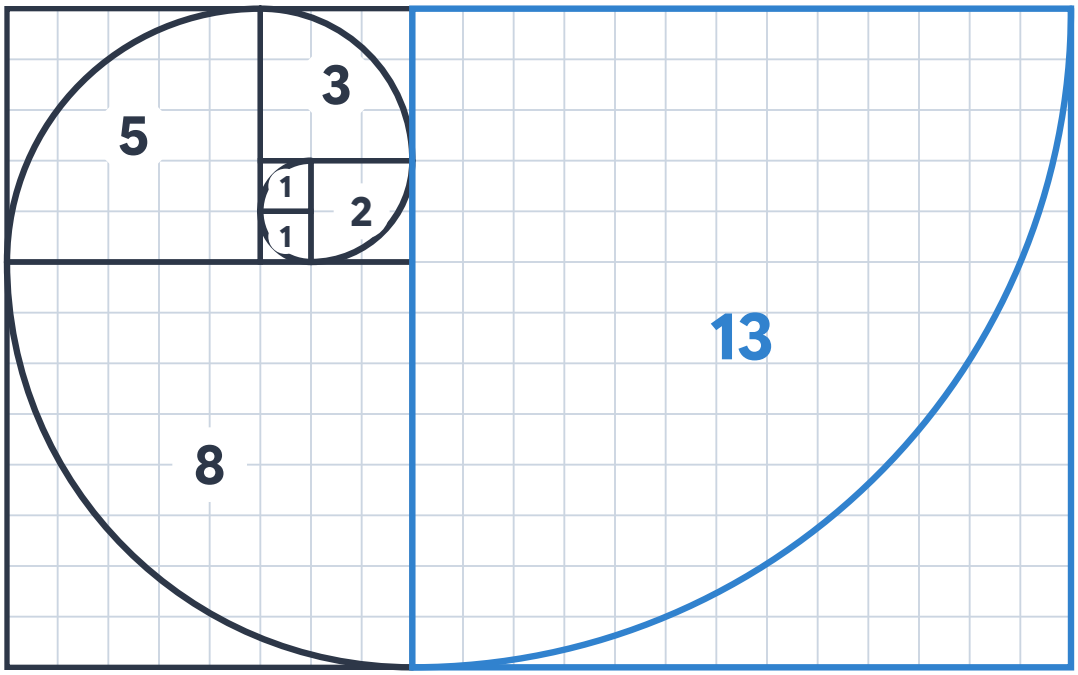
10. Is the **31**st Fibonacci number odd or even? **(odd)** **even**

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Fibonacci Day Math

Draw the next square. Then fill in the table.

The squares have sides **1**, **1**, **2**, **3**, **5** and **8**. Draw a square with side **13** in the empty part.



Example

Square	1	2	3	4	5	6	7
Side of the new square	1	1	2	3	5	8	13
Area of the new square	1	1	4	9	25	64	169
Short side of the rectangle	1	1	2	3	5	8	13
Long side of the rectangle	1	2	3	5	8	13	21
Area of the rectangle	1	2	6	15	40	104	273
Perimeter of the rectangle	4	6	10	16	26	42	68

1. Add the areas of squares **1** to **6**. The total is **104**

2. Which rectangle in the table has the same area? **8 by 13**

3. Square **8** has side **21**. Then the rectangle is **21 by 34**

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Fibonacci Day Math

A rabbit puzzle: count the pairs of rabbits each month.

In **1202**, Leonardo of Pisa (known today as Fibonacci) wrote a book with a rabbit puzzle. Here is one like it:

1. Start with one baby pair of rabbits in month **1**.
2. A baby pair grows up in one month.
3. Each month, every grown-up pair has a baby pair.
4. No rabbits leave.

 a grown-up pair

 a baby pair

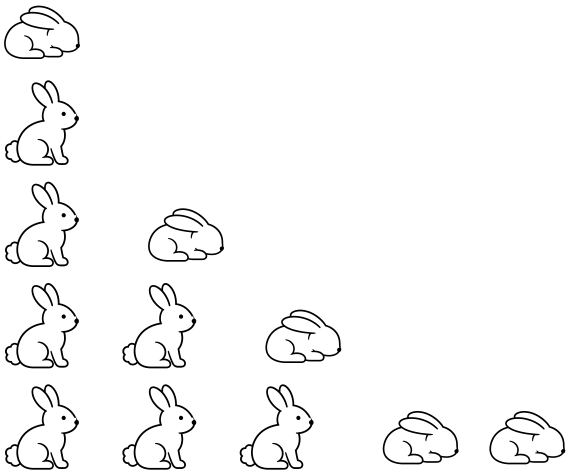
Month 1

Month 2

Month 3

Month 4

Month 5



Example

Month	1	2	3	4	5	6	7	8	9	10
Grown-up pairs	0	1	1	2	3	5	8	13	21	34
Baby pairs	1	0	1	1	2	3	5	8	13	21
Pairs in all	1	1	2	3	5	8	13	21	34	55

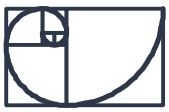
1. How many pairs are there in all in month **12**? 144

2. In which month are there **34** pairs in all? 9

3. Look at the Pairs in all row. What do you notice?

They are the Fibonacci numbers: add the two before.

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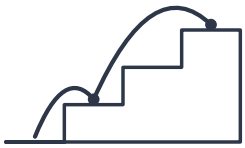
Fibonacci Day Math

Climb 1 or 2 stairs at a time. Find every way.

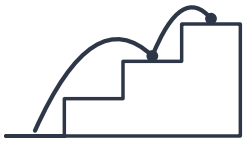
Example There are **3** ways to climb **3** stairs:



1 + 1 + 1



1 + 2



2 + 1

1. **Write every way to climb 2 stairs.** How many ways? **2**



1 + 1

2

2. **Write every way to climb 4 stairs.** in any order How many ways? **5**



1 + 1 + 1 + 1

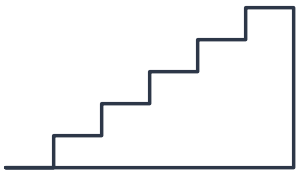
1 + 2 + 1

2 + 2

1 + 1 + 2

2 + 1 + 1

3. **Write every way to climb 5 stairs.** in any order How many ways? **8**



1 + 1 + 1 + 1 + 1

1 + 2 + 1 + 1

2 + 1 + 2

1 + 1 + 1 + 2

1 + 2 + 2

2 + 2 + 1

1 + 1 + 2 + 1

2 + 1 + 1 + 1

4. **Fill in the table. Use the pattern for 6, 7 and 8 stairs.**

Stairs	1	2	3	4	5	6	7	8
Ways to climb	1	2	3	5	8	13	21	34

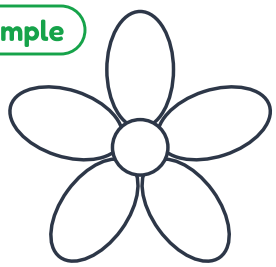
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Fibonacci Day Math

Find Fibonacci numbers in flowers, dates and lists.

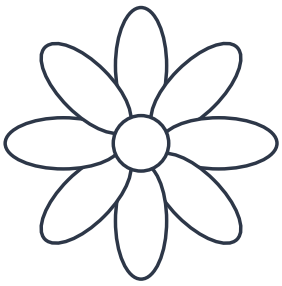
1. Many flowers have a Fibonacci number of petals, but not all. Count the petals. Is it a Fibonacci number?

Example



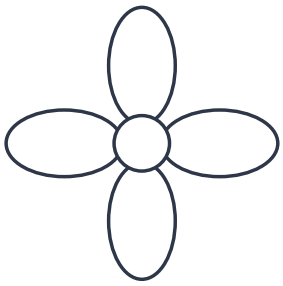
5 petals

(Yes) No



8 petals

(Yes) No



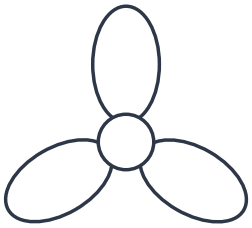
4 petals

Yes (No)



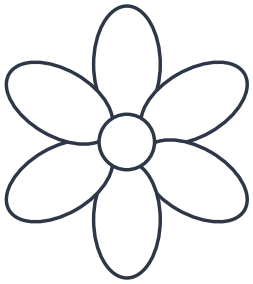
13 petals

(Yes) No



3 petals

(Yes) No



6 petals

Yes (No)

2. Fibonacci Day is November **23**, written **11/23**: **1**, **1**, **2**, **3**. Circle each date whose month and day are Fibonacci numbers next to each other.

(2/3) February **3** | (3/5) March **5** | 4/5 April **5** | (5/8) May **8** | 6/8 June **8** | (8/13) August **13**

3. Circle the Fibonacci numbers.

4 (8) 12 (13) 20 (21) 30 (34) 50 (55) (89) 100

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