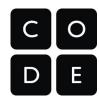
FROZEN TUTORIAL



ANSWER SHEET

REMINDER: Kids under 13 must not share on social media!

PUZZLE #1

PUZZLE #2

1.

2.

3.

4.

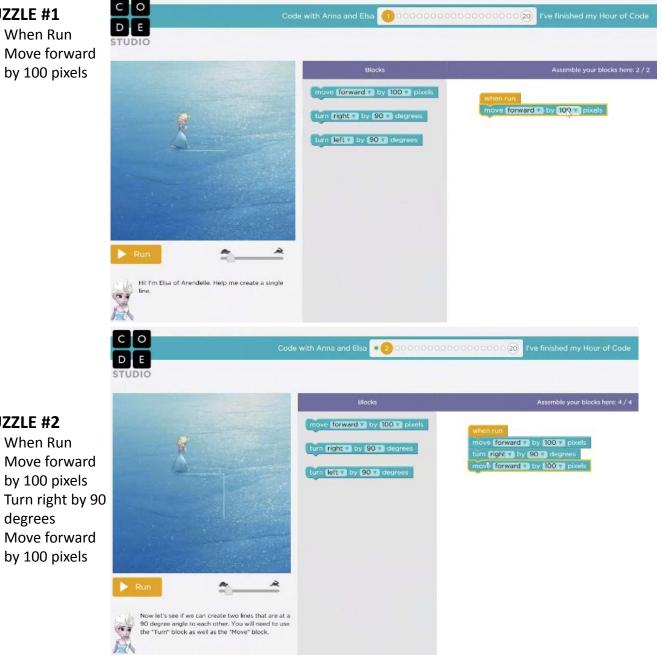
When Run

degrees

by 100 pixels

by 100 pixels

- When Run 1.
- 2. Move forward by 100 pixels

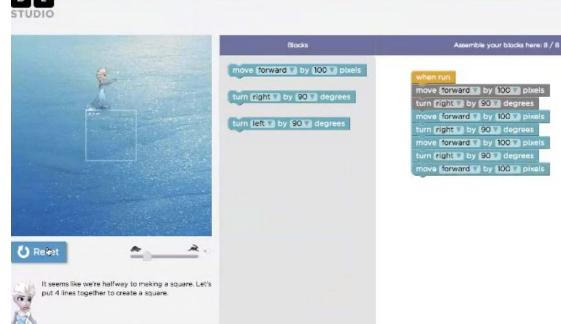


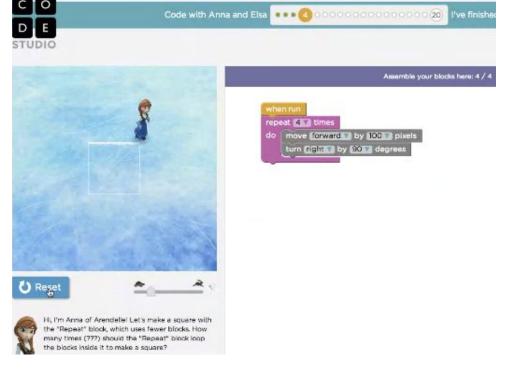
PUZZLE #3

Attach more blocks under grey blocks to create a square. 0

Steps by Step:

- 1. When run
- Move forward by 100 pixels
- Turn right by 90 degrees
- 4. Move forward by 100 pixels
- 5. Turn right by 90 degrees
- 6. Move forward by 100 pixels
- Turn right by 90 degrees
- Move forward by 100 pixels





PUZZLE #4

How many times should Anna Repeat the steps? Use Drop Down to write:

- 1. When run
- 2. Repeat 4 times
- Inside Repeat 4 Times: move forward by 100 pixels
- Inside Repeat 4
 Times: turn right by 90 degrees

Code with Anna and Elsa

PUZZLE # 5

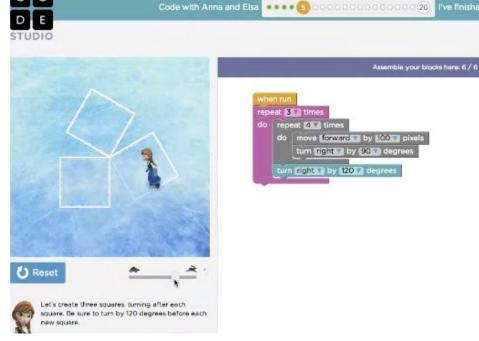
Create 3 squares, turning after each square. Turn by 120 degrees before each new square.

Answer how many times you repeat:

 From drop down repeat 3 times

Answer by how many degrees:

 From drop down turn right by 120 degrees



PUZZLE #6

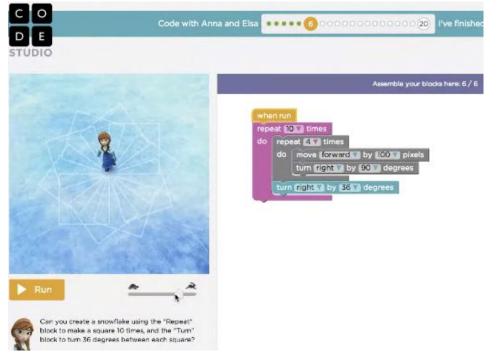
Create a snowflake using the "Repeat" block to make a square 10 times, and the "Turn" block to turn 36 degrees between each square.

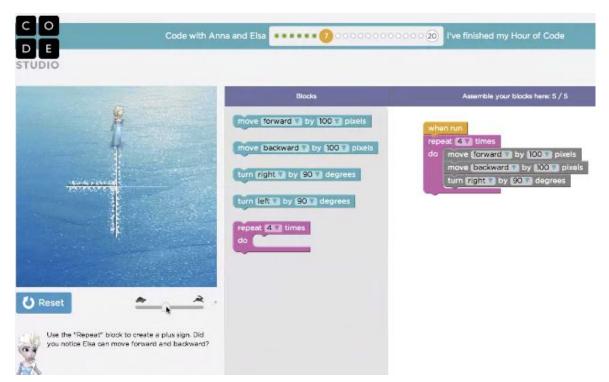
Answer to how many times you repeat:

• From drop down repeat 10 times

Answer to by how many degrees:

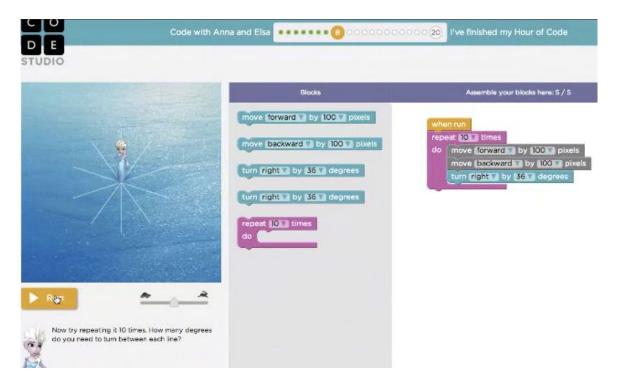
 From drop down turn right by 36 degrees





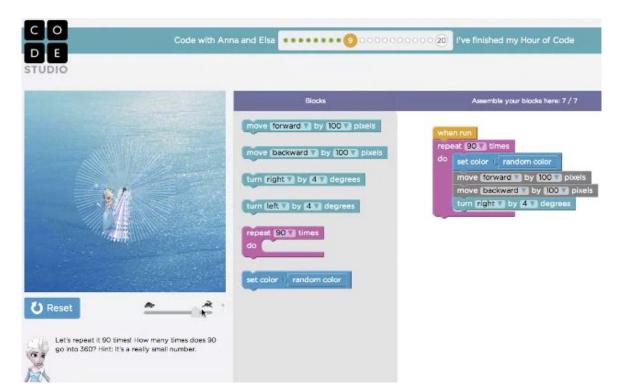
PUZZLE #7 – Use the "Repeat" block to create a plus sign. Did you notice Elsa can move forward and backward?

Answer: Move the pink "Repeat" block underneath "When Run". Then move the grey blocks inside the pink repeat block.



PUZZLE #8 – Try repeating it 10 times. How many degrees do you need to turn between each line?

Answer: Move the pink repeat block under when run. Move the grey blocks and blue block inside the pink block. From the drop down in the blue block – turn right by "36" degrees.



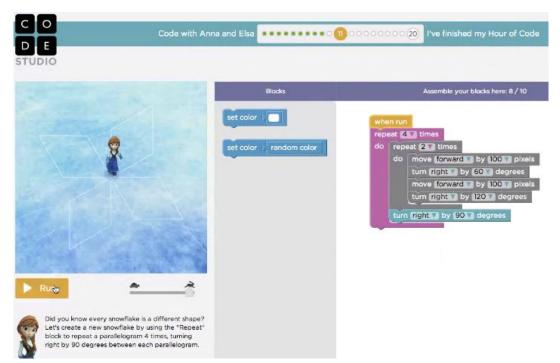
PUZZLE #9 – Repeat 90 times. How many times does 90 go into 360?

Answer: Move pink repeat block under "when run". Drop the blue/grey/grey/turquoise blocks inside of the pink block. In the turquoise block, use the drop down to change it to turn right by "4" degrees

DE	ith Anna and Elsa	000000 20 I've finished my Hour of Code
STUDIO	Blocks	Assemble your blocks here: 6 / 8
	move forward by 100 pixels turn right by 60 degrees turn right by 120 degrees repeat 2 times do	when run repeat 2 times do move forward by 100 pixels turn right by 60 degrees move forward by 100 pixels turn right by 120 degrees
Run Et's create a parallelogram. It's just like a s but has different angles: 60 and 120 degree ingles. but has do 90 degree angles.	Disney Set color / random color	

PUZZLE #10 – Create a parallelogram. The angles needed are 60 and 120 degree angles instead of the 90 degree angles needed in a square.

Answer: Place the pink repeat block underneath "when run". Drop the grey/blue/grey/blue blocks inside of the pink repeat block. Change the first blue line to read "turn right by 60 degrees". Change the second blue line to read "turn right by 120 degrees".

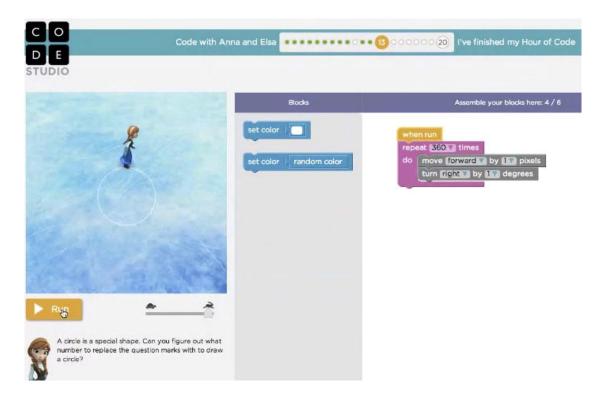


PUZZLE #11 – Create a snowflake using the "repeat" block to repeat the parallelogram 4 times, turning right by 90 degrees between each parallelogram. BONUS: you can add different colors if you want!

Answer: Change drop down in pink block to read repeat "4" times. Change drop down in blue line to read turn right by "90" degrees. Students may use blocks on the left to add color if they want!

	Blocks	Assemble your blocks here: 8 / 10
*	move forward by 100 pixels turn right by 36 degrees turn left by 36 degrees repeat 10 times do	when run repeat 10 times do repeat 2 times do move forward by 100 p turn right by 60 degree turn right by 120 degree turn right by 36 degrees
Rep	set color random color	

PUZZLE #12 – Create a snowflake using the repeat block to repeat the parallelogram 10 times, turning right by 36 degrees between each one. BONUS: add color blocks if you want! **Answer:** Move the pink repeat block underneath "when run". Drop the grey blocks and blue line inside of the pink block. Change drop down in the blue block to read turn right by "36" degrees.



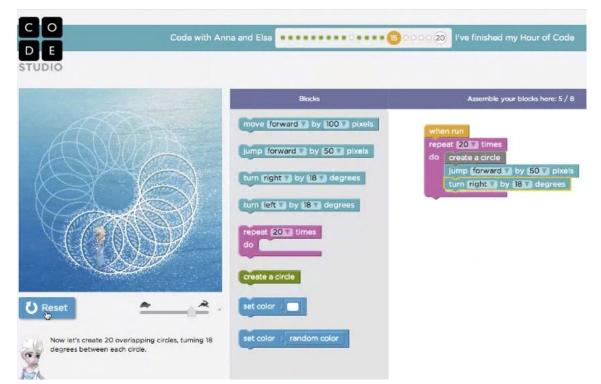
PUZZLE #13 – What number do you need to replace the question marks with to make a circle? BONUS: add color blocks if you want!

	Code with Anna and Elsa	BBCC 100000 I've finished my Hour of Code
STUDIO	Biocks	Assemble your blocks here: 4 / 6
1	move forward by 100 pixels	when run repeat 10 m times .co creste a circle
	turn right a by 90 a degrees	jump (forward v) by (25 v) pixels
	repeat E0 T times do	
🕨 Run	Create a circle	
Use the new "Greate a circle" brock to create overlapping circles. Don't forget to jump forv between circles.		

Answer: From drop-down in pink repeat block, choose "360" times.

PUZZLE #14 – Use the "Create a circle" block to create 10 overlapping circles. Jump forward between the circles. BONUS: add color blocks if you want!

Answer: Drop pink repeat block underneath "when run". Drop "create a circle" and blue "jump forward" blocks inside the pink repeat block. Change drop-down to say "jump forward by 25 pixels".



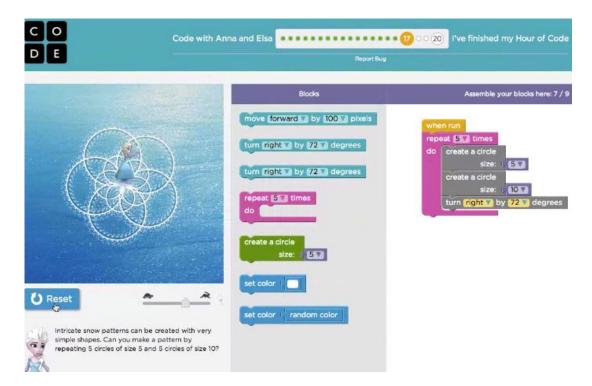
PUZZLE #15 – Create 20 overlapping circles, turning 18 degrees between each circle. BONUS: add color blocks if you want!

Answer: Leave blocks as is. Choose repeat 20 times in pink block. Jump forward by 50 pixels. Turn right by 18 degrees.

	Code with Anna and Elsa	•• 18 000 19 I've finished my Hour of Code
STUDIO		
	Blocks	Assemble your blocks here: 5 / 7
Ó	move forward by 100 pixels turn right by 90 degrees turn left by 90 degrees jump forward by 100 pixels create a circle size: ??? *	when run create a circle size: 57 create a circle size: 101
Here's a "Create circle" block th of different sizes. Can you use t circle of size 5 and a larger circle	his to create a small	

PUZZLE #16 – Use the "Create a circle" block to make a small circle of size 5 and a large circle of size 10. BONUS: add color blocks if you want!

Answer: Drop the "Create a circle" block 2 times under "when run". Change the size of one to "5" and the size of the other one to "10". It doesn't matter what order the circles are drawn.

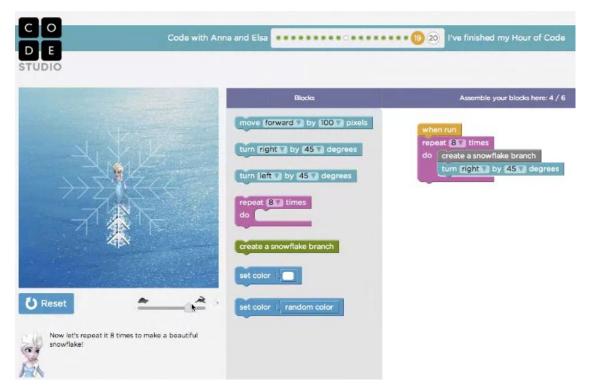


PUZZLE #17: Make a pattern by repeating 5 circles of size 5 and 5 circles of size 10.

Answer: Drop pink repeat block under "when run". Drop 2 x "Create a circle" blocks inside repeat block. Place "turn right by 72 degrees" block underneath the create a circle blocks inside pink repeat block. Add color blocks if you want!

	Code with Anna and Elsa	Anna and Elsa	
		Blocks	Assemble your blocks here: 4 / 6
	tum fig tum fet repeat f	orward by 100 plxels	when run repeat 3 times do create a snowflake branch turn right by 45 degrees
Try using the "Create a snowflaw create three branches, which st snowflawe.			

PUZZLE #18: Use the "Create a snowflake branch" to create 3 branches. Add color if you want! **Answer:** Drop pink repeat block underneath "when run". Make sure it says repeat 3 times. Put "create a snowflake branch inside repeat block. Drop "turn right by 45 degrees underneath "create a snowflake". Add color blocks if you want!



PUZZLE #19 – *Repeat the snowflake branch 8 times to make a snowflake. Add color if you want!* **Answer:** Drop pink repeat block underneath "when run". Drop "create a snowflake branch" and "turn right by 45 degrees" inside repeat block. Add color blocks to change color.

	Code with Anna and Elsa	•••••
	Report Bug	
	Blocks	Assemble your blocks here:
	move forward by 100 pixels turn right by 90 degrees turn left by 90 degrees urn forward by 100 pixels create a circle size: 0 create a snowflake of type square 1	when run create a snowflake of type flower (move forward) by 100 pixels create a snowflake of type fine (turn right) by 90 degrees move forward) by 100 pixels create a snowflake of type square (y square parallelogram line spiral flower fractal random
Vouve officially become a master winter wonderland and share wi		random

PUZZLE #20 – Master Artist – Create what you want!