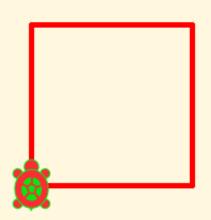


start repeat 👖 4 150 forward 90



How easy was that?

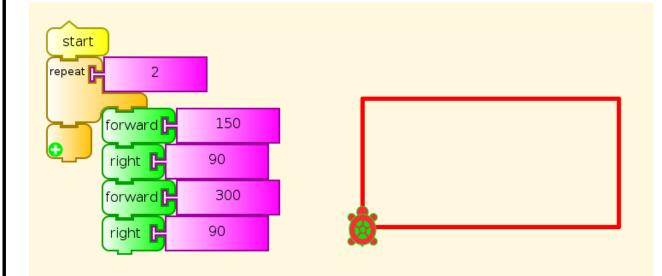
- Change the size of the square.
- See if you can use the repeat command to add a triangle on top of the square.

#### TURTLE 302 GROWING SQUARES TURTLE BLOCKS orward 📙 right 📙 right 📙 150 right 📙 forward 📙 See if you can add two more squares. right 📙 Continue the pattern when you increase the size of each new square. 250 Try to make the pattern again going to the left right 📙

#### TURTLE 303 RECTANGLE



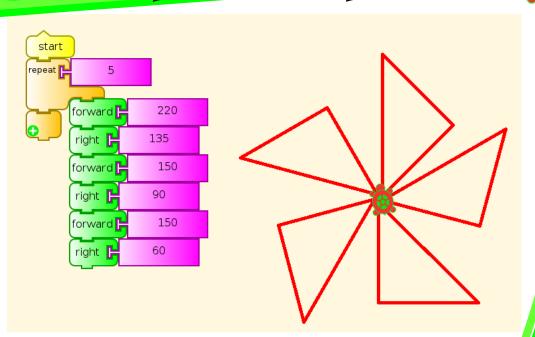
URTLE BLOCKS



Did you know that the correct name for this is OBLONG. A square and an oblong can both be called a rectangle.

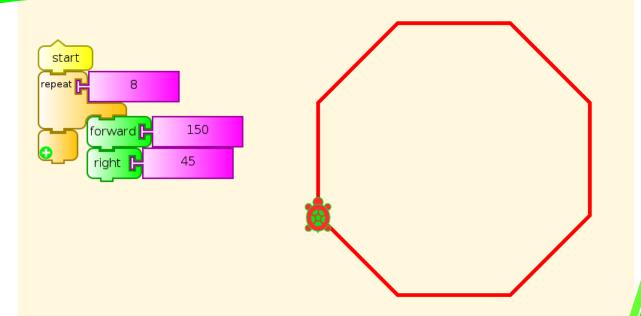
- Make a bigger rectangle or a smaller rectangle.
- Change the dimensions of the rectangle.

# TURTLE 304 TRIANGLE PATTERN



- Change the size of the triangles.
- See if you can change the angles in the triangles. You might also need to change the number of repeats.





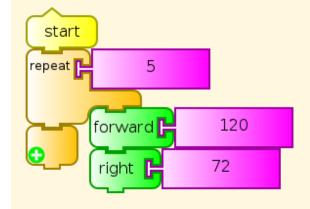
- Change the size of the octagon.
- What happens if you change the angle by making it smaller or larger? Can you make a closed shape again?

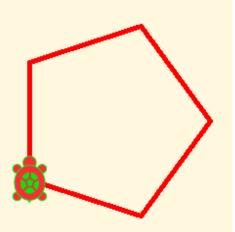
# CUBE TURTLE 306 PRISM TURTLE BLOCKS 150 150 150 action 1

- See if you can make another prism with an oblong face.
- Change some of the other dimensions to see what you can create.







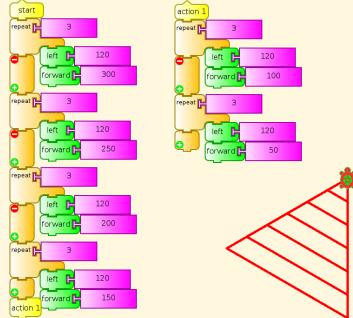


- Make a larger pentagon.
- Can you make a pentagon with a flat base line?
- What happens if you change the angle?

# TURTLE 308 TRIANGLE PYRAMID



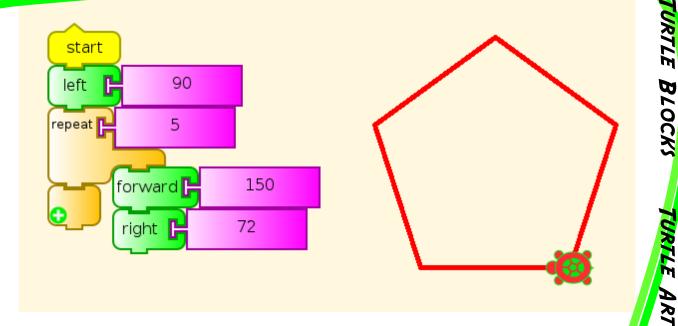
URTLE BLOCKS



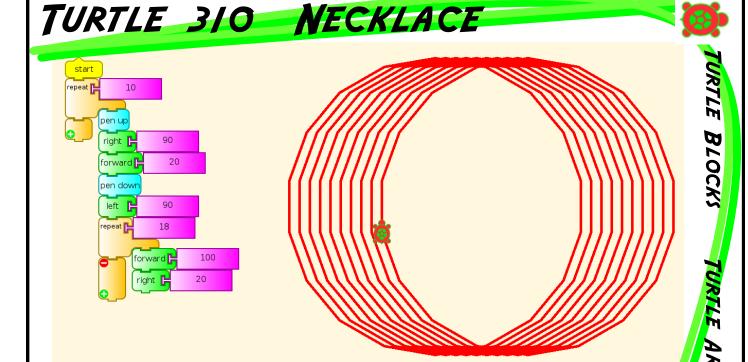
- Can you make another pyramid like this with larger triangles?
- Can you make it so the base line is flat (not on an angle)?
- Draw a star or a flag on top of the pyramid.

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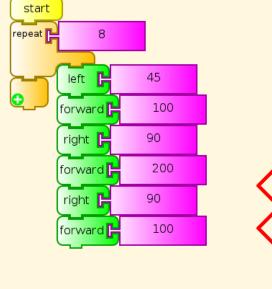


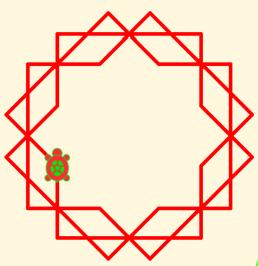
- See if you can use the pen up and down commands to create a face inside the pentagon.
- Try to draw some legs on the pentagon.



- Create different types of necklaces.
- Can you create something special on the necklace like a cross or a star?



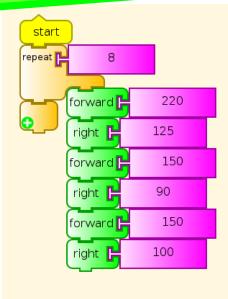


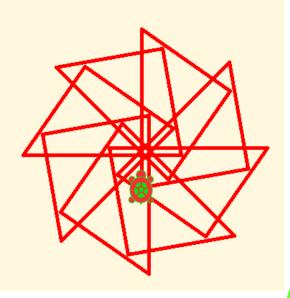


- Make another start that is larger or smaller than this one.
- See what happens when you change some of the angles. How many repeats do you need to complete a new star now?

URTLE BLOCKS

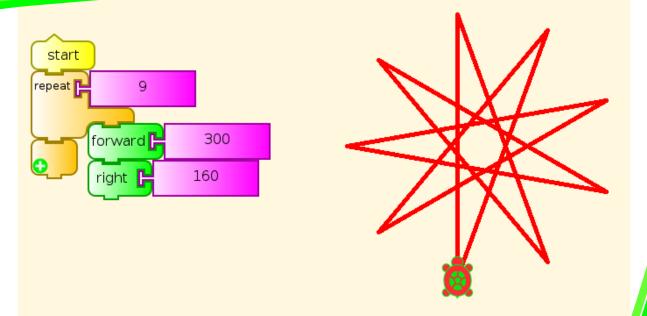
# TURTLE 312 WINDMILL





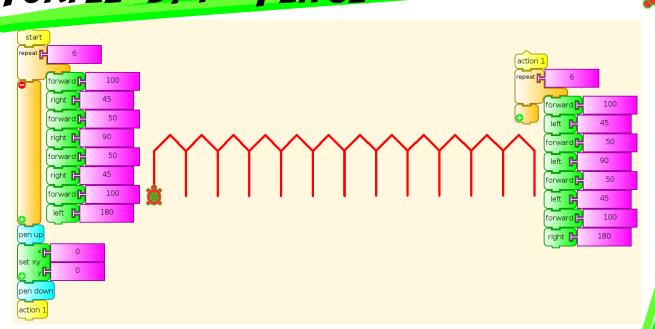
- Change some of the numbers to see what differences occur.
- Try to create a new windmill that does not have blades that touch each other.





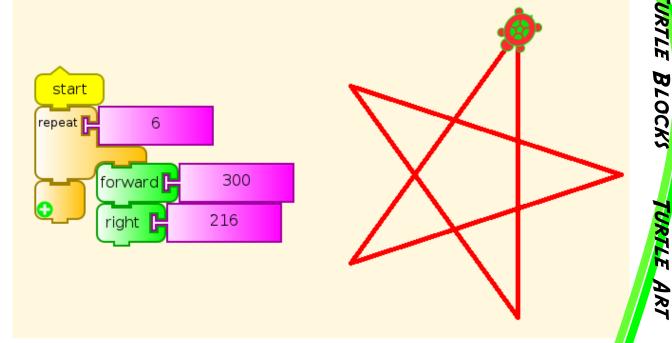
- See what happens if you make the angle higher or lower.
- Try to make other stars that are larger or smaller.
- Can you create a star with a different shape?

TURTLE 314 FENCE



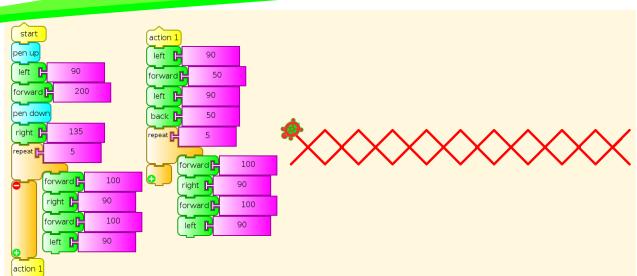
- Try to make the fence taller.
- Can you make the fence palings wider or narrower?
- See if you can leave a gap between the two sections of fence for a gate.
- Maybe you could create a gate too!





- Make the star smaller.
- What other type of star can you make?

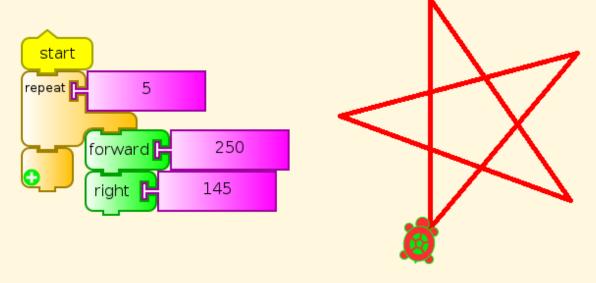
## TURTLE 316 SPRING



- Make the spring look like it has started to close.
- See if you can stretch the spring out.
- Can you make a spring that goes up and down instead of left to right?

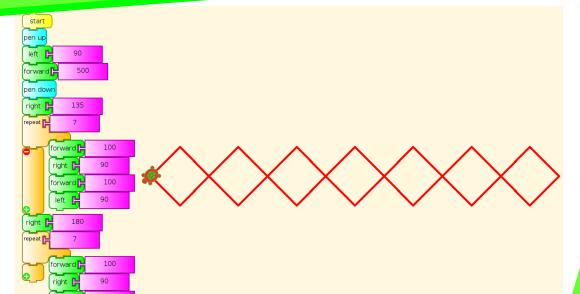
# TURTLE 317 STAR 5





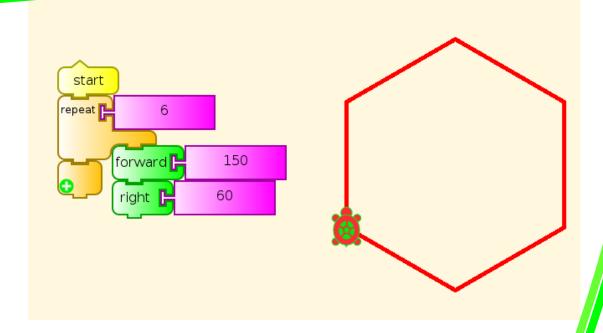
- What happens when you change the angle?
- Can you draw a square around the star?

# TURTLE 318 DIAMONDS



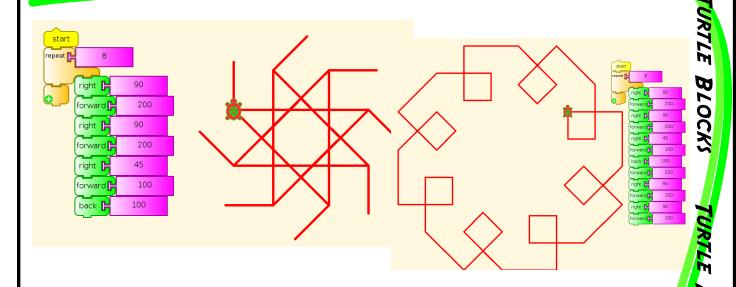
- Try to make another row of diamonds above this row so that it creates a tessellating pattern.
- See if you can make the diamonds taller.
- Can you create a gap between each diamond?





- See if you can make a smaller hexagon inside this one. Can you do it without creating a line that joins the hexagons?
- Can you make the hexagon with a flat base?

#### TURTLE 320 STAR 4



- See what else you can add to the end of each point of a star.
- Make some changes to create the figure on the right side.
- What else can you create by changing some of the numbers?

Can you turn this plus into a cross?

90

100

right 📙

forward 🗜

• Try to make the four sides longer without making the centre any larger between the four inside points.

Start

pen up

left 90

forward 500

pen down

right 135

repeat 6

forward 100

right 1 90

forward 100

left 90

left 90

forward 100

right 1 90

forward 100

left 90

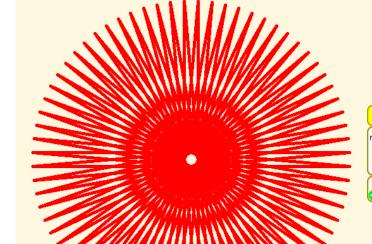
- See if you can create some handles on the end of your zig zag.
- Maybe you can create something on the other end to make it look like the zig zag has picked up something.

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#### TURTLE 323 SUN



TURTLE BLOCKS



forward 500

URTLE ART

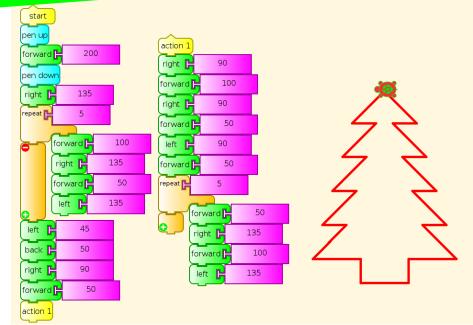
- Can you change the colour (color) of the sun?
- What happens if you halve the number of repeats?
   Then halve it again?

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## TURTLE 324 CHRISTMAS TREE



URTLE BLOCKS



- This tree would look good if you could put a nice star on top of it.
- Draw the tree in a large pot or box.
- Can you make the tree larger?
- Can you create some things on your tree?

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#### TURTLE 325 TWO OCTAGONS



TURTLE BLOCKS

right 45

forward 100

right 90

forward 100

left 90

pen down

repeat 8

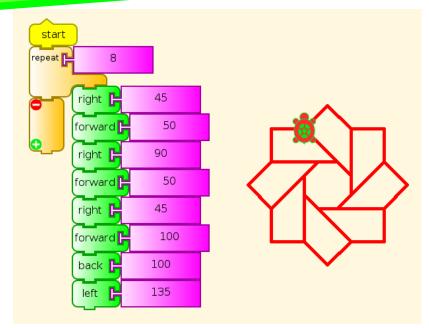
- TURTLE AR
- **507**

- Can you make four octagons?
- Can you make the two pentagons so they do not touch (intersect) each other?

### TURTLE 326 BLOCK PATTERN



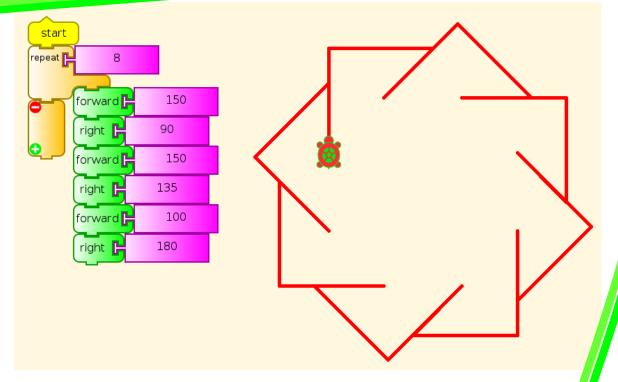
TURTLE BLOCKS



- See what other types of block patterns you can create.
- Can you make the same pattern larger?
  Can you make it just half (50%) bigger than it is now?

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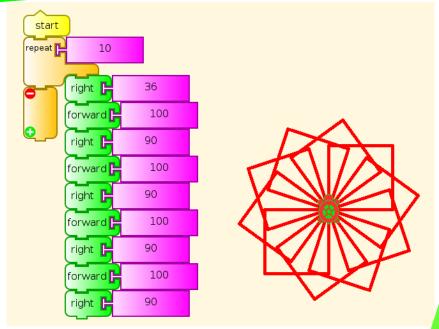




- See if you can make this pattern with different angles.
- How many repeats do you need to have if you change the first angle (right angle) to 45 degrees?

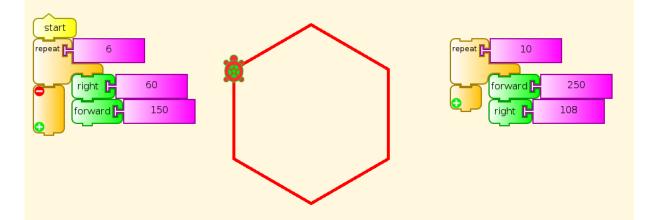
# TURTLE 328 SQUARE PATTERN





- What other patterns can you create just using squares?
- How many repeats do you need to have if you change the first angle to 18?



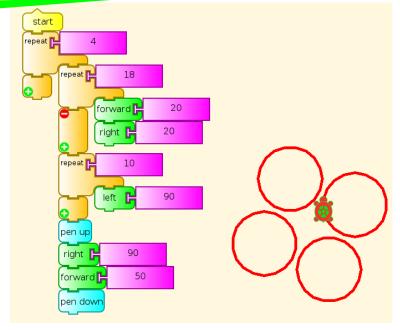


- Look how different you can make this hexagon look by changing all the numbers.
- What else can you create?

### TURTLE 330 COOKTOP



TURTLE BLOCKS



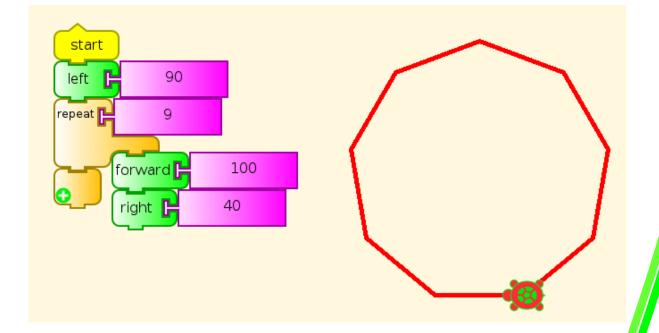
Note: This is not the best way to draw a circle. It is simply one way.

- What else can you draw on this cooktop (stove)?
- Can you make the circles more perfect (rounded)?

#### TURTLE 331 9 SIDED SHAPE



URILE BLOCKS

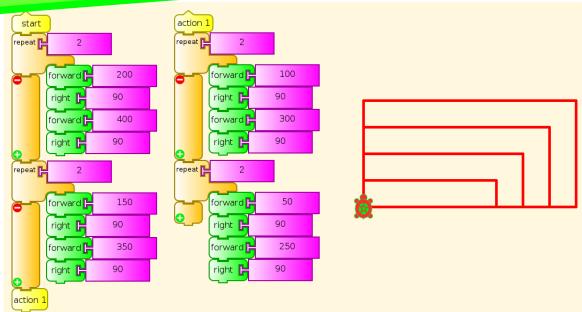


A 9 sided shape is called a nonagon.

- Change this nonagon into an octagon.
- Now see if you can create a decagon.

# TURTLE 332 RECTANGLE PATTERN





- Can you create this pattern with rectangles that are shorter than these ones?
- Can you add two larger rectangles to the pattern? Have you kept the increase in size consistent with the originals?