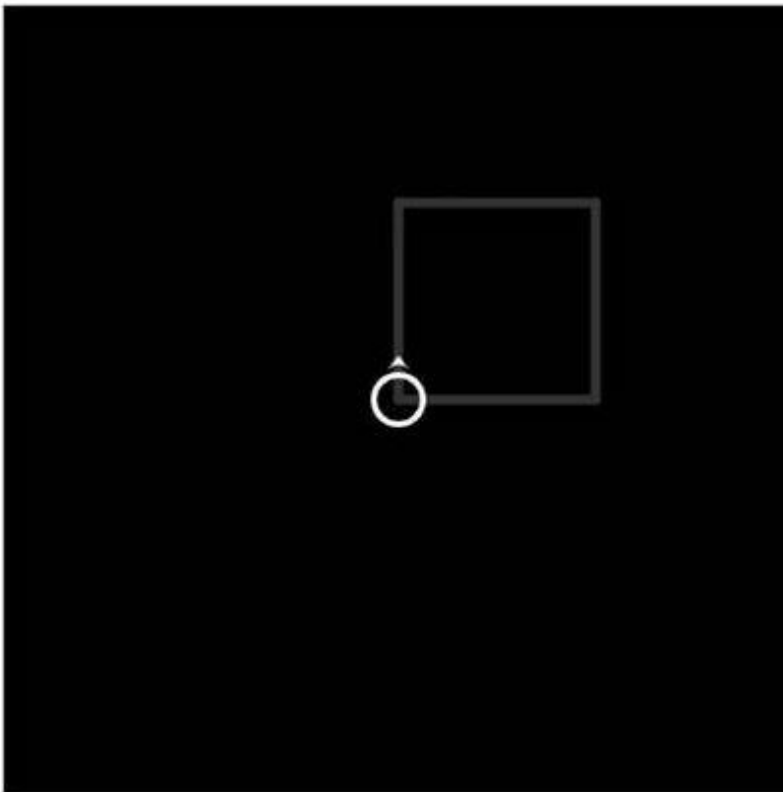


Blockly Turtle Levels 1 to 5

Level 1

Draw a square.



The commands available to choose are as follows:

Level 1 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> • Forward • Backward <p>by [choose from the following distances]:</p> <ul style="list-style-type: none"> • 20 	<p>The turtle moves according to the command.</p>

<ul style="list-style-type: none"> • 50 • 100 • 150 	
<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> • Right by • Left by <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> • 1 • 45 • 72 • 90 • 120 • 144 	The turtle turns according to the command.

Level 1 Loop Commands	Output
<p>'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> • 3 • 4 • 5 • 360 	The turtle continues to move as instructed.

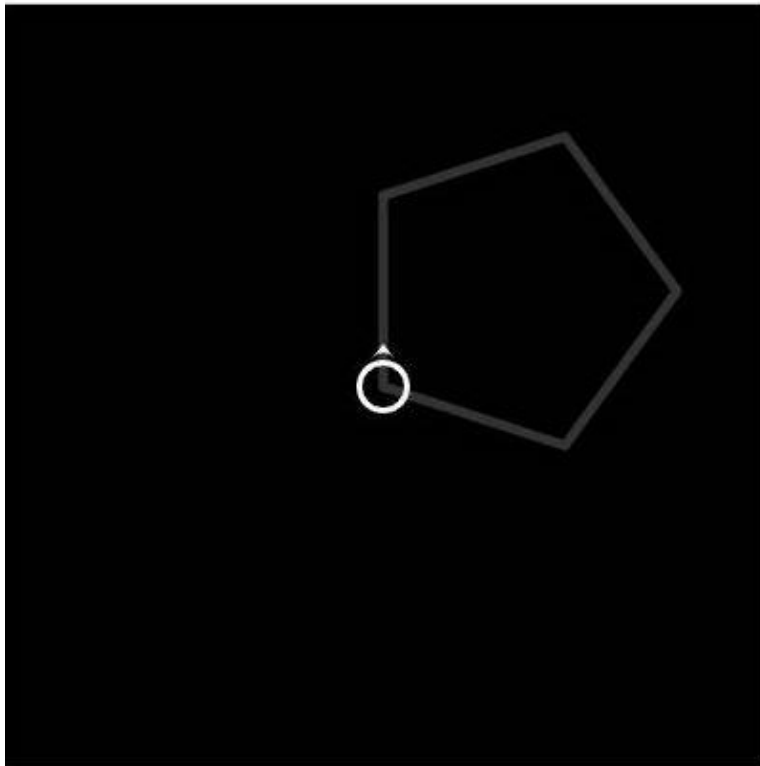
Please write your Level 1 solution here:

Your Level 1 Solution Commands

Here is the [Level 1 solution](#)

Level 2

Draw a pentagon.



The commands available to choose are as follows:

Level 2 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none">• Forward• Backward <p>by [choose from the following distances]:</p> <ul style="list-style-type: none">• 20• 50• 100• 150	<p>The turtle moves according to the command.</p>

<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> • Right by • Left by <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> • 1 • 45 • 72 • 90 • 120 • 144 	<p>The turtle turns according to the command.</p>
---	---

Level 2 Loop Commands	Output
<p>'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> • 3 • 4 • 5 • 360 	<p>The turtle continues to move as instructed.</p>

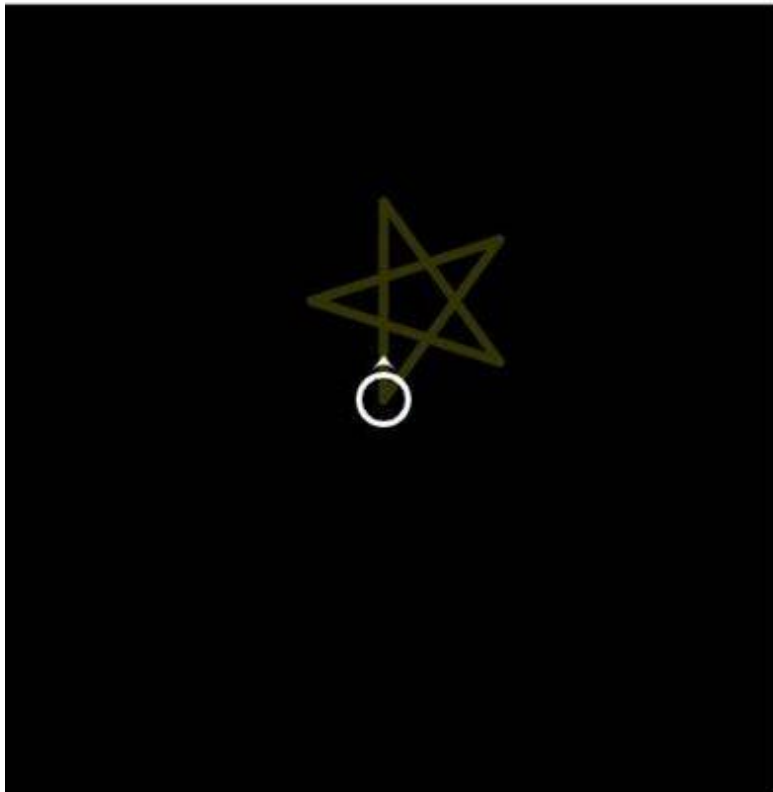
Please write your Level 2 solution here:

<p>Your Level 2 Solution Commands</p>

Here is the [Level 2 solution](#)

Level 3

Draw a star.



The commands available to choose are as follows:

Level 3 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none">• Forward• Backward <p>by [choose from the following distances]:</p> <ul style="list-style-type: none">• 20• 50• 100• 150	<p>The turtle moves according to the command.</p>

<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> • Right by • Left by <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> • 1 • 45 • 72 • 90 • 120 • 144 	<p>The turtle turns according to the command.</p>
---	---

Level 3 Loop Commands	Output
<p>'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> • 3 • 4 • 5 • 360 	<p>The turtle continues to move as instructed.</p>

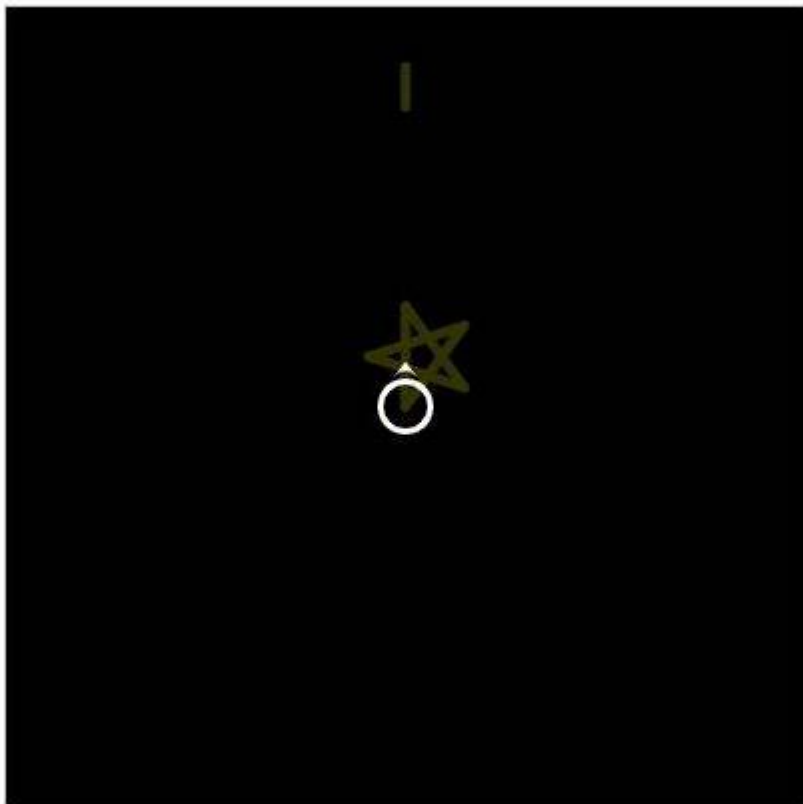
Please write your Level 3 solution here:

Your Level 3 Solution Commands

Here is the [Level 3 solution](#)

Level 4

Draw a small star then draw a line above it.



The commands available to choose are as follows:

Level 4 Turtle Commands	Output
Move turtle [choose from the following commands]: <ul style="list-style-type: none">• Forward• Backward by [choose from the following distances]: <ul style="list-style-type: none">• 20• 50• 100• 150	The turtle moves according to the command.
Turn turtle [choose from the following commands]: <ul style="list-style-type: none">• Right by	The turtle turns according to the command.

<ul style="list-style-type: none"> • Left by Then [choose from the following degree angles]: <ul style="list-style-type: none"> • 1 • 45 • 72 • 90 • 120 • 144 	
Pen up or down. Choose from the following options: <ul style="list-style-type: none"> • Pen up • Pen down 	Allows you to lift your pen off the paper when you move.

Level 4 Loop Commands	Output
'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]: <ul style="list-style-type: none"> • 3 • 4 • 5 • 360 	The turtle continues to move as instructed.

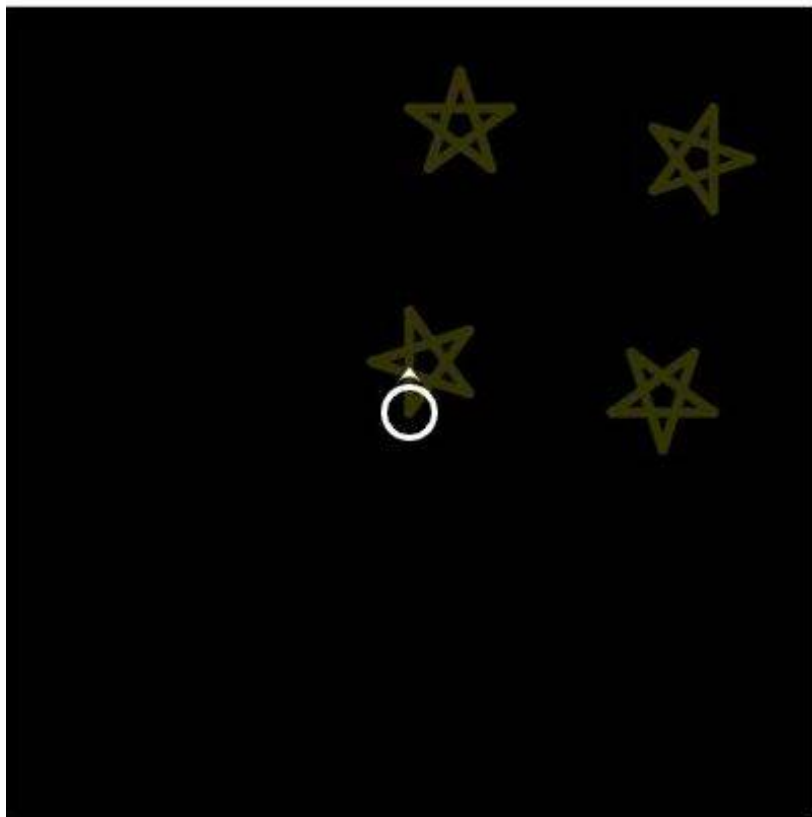
Please write your Level 4 solution here:

Your Level 4 Solution Commands

Here is the [Level 4 solution](#)

Level 5

Draw four stars arranged in a square.



The commands available to choose are as follows:

Level 5 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none">• Forward• Backward <p>by [choose from the following distances]:</p> <ul style="list-style-type: none">• 20• 50• 100• 150	The turtle moves according to the command.
<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none">• Right by	The turtle turns according to the command.

<ul style="list-style-type: none"> • Left by Then [choose from the following degree angles]: <ul style="list-style-type: none"> • 1 • 45 • 72 • 90 • 120 • 144 	
Pen up or down. Choose from the following options: <ul style="list-style-type: none"> • Pen up • Pen down 	Allows you to lift your pen off the paper when you move.

Level 5 Loop Commands	Output
'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]: <ul style="list-style-type: none"> • 3 • 4 • 5 • 360 	The turtle continues to move as instructed.

Please write your Level 5 solution here:

Your Level 5 Solution Commands

Here is the [Level 5 solution](#)

Level 1 Solution

The screenshot shows the 'Blockly Games: Turtle' interface. At the top, there are two tabs: 'Blockly Games: Maze' and 'Blockly Games: Turtle'. The URL in the address bar is 'blockly.games/turtle?lang=en&level=1'. Below the tabs, the title 'Blockly Games: Turtle' is followed by a progress indicator with 10 circles, the first of which is filled. The main canvas is black with a white square outline. A small white circle with a black outline is at the bottom-left corner of the square. To the right of the canvas is a 'Turtle Loops' panel. It contains a 'repeat 4 times' block with a 'do' block containing 'move forward by 100' and 'turn right by 90°'. Below the canvas is a slider with a turtle icon and a red 'Run Program' button.

Level 1 Solution Commands

'Repeat until' loop which repeats everything inside it (4 times) until a certain condition is met as follows:

Move forward by 100 degrees

Turn right by 90 degrees

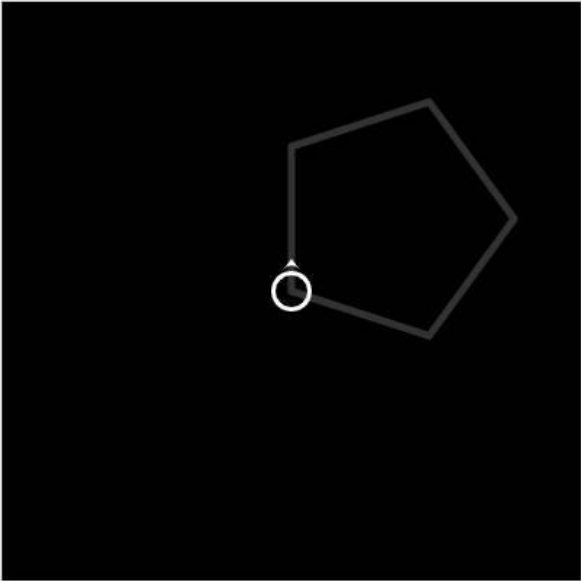
Back to [Level 2 exercise](#)

Level 2 Solution

Blockly Games : Maze x Blockly Games : Turtle x +

← → ↺ ⬆️ 🔒 blockly.games/turtle?lang=en&level=2

Blockly Games : Turtle ● 2 ● ● ● ● ● ● ● ● 10



Turtle Loops

```
repeat 5 times
do
  move forward by 100
  turn right by 72°
```

Run Program

Level 2 Solution Commands

'Repeat until' loop which repeats everything inside it (5 times) until a certain condition is met as follows:

Move forward by 100 degrees

Turn right by 72 degrees

Back to [Level 3 exercise](#)

Level 3 Solution

Blockly Games : Turtle

3 10

Turtle
Colour
Loops

repeat 5 times
do
move forward by 100
turn right by 144°

Run Program

Level 3 Solution Commands

'Repeat until' loop which repeats everything inside it (5 times) until a certain condition is met as follows:

Move forward by 100 degrees

Turn right by 144 degrees

Back to [Level 4 exercise](#)

Level 4 Solution

Blockly Games : Maze

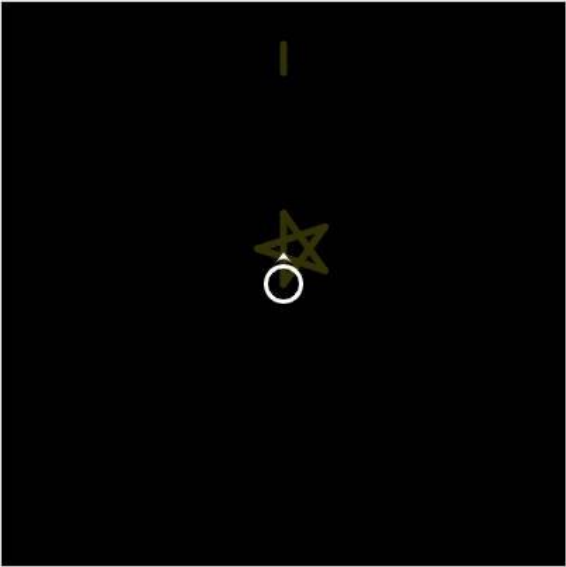
Blockly Games : Turtle

blockly.games/turtle?lang=en&level=4

Blockly Games : Turtle

4

10



Turtle

Colour

Loops

repeat 5 times

do

move forward by 50

turn right by 144°

pen up

move forward by 100

move forward by 50

pen down

move forward by 20

Run Program

Level 4 Solution Commands
'Repeat until' loop which repeats everything inside (5 times) it until a certain condition is met as follows:
Move forward by 50 degrees
Turn right by 144 degrees
End of 'repeat until' loop
Pen up
Move forward by 100 degrees
Move forward by 50 degrees
Pen down
Move forward by 20 degrees

Back to [Level 5 exercise](#)

Level 5 Solution

Blockly Games : Maze

Blockly Games : Turtle

+

← → ↺ ⌂

blockly.games/turtle?lang=en&level=5

Blockly Games : Turtle

5

10

Turtle

Colour

Loops

repeat 4 times

do

repeat 5 times

do

move forward by 50

turn right by 144°

pen up

move forward by 100

move forward by 50

pen down

turn right by 90°

Run Program

Level 5 Solution Commands
'Repeat until' loop 1 which repeats everything inside it until a certain condition is met as follows:
Repeat 4 times
'Repeat until' loop 2 inside 'repeat until' loop 1 which repeats everything inside it until a certain condition is met as follows:
Repeat 5 times
Move forward by 50 degrees
Turn right by 144 degrees
End of 'repeat until' loop 2
Pen up
Move forward by 100 degrees
Move forward by 50 degrees
Pen down

Turn right by 90 degrees
End of 'repeat until' loop 1