Geometric Patterns 1
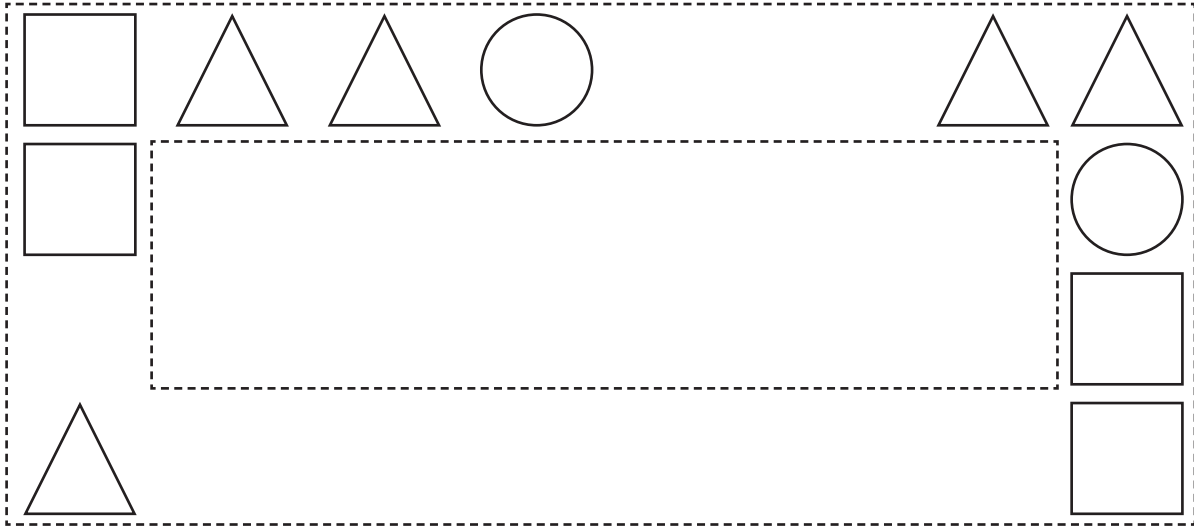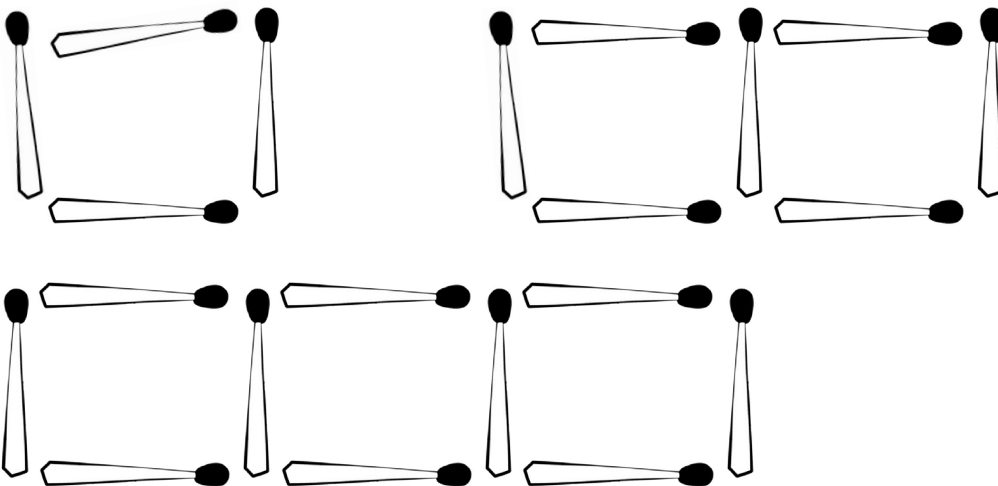
Name:

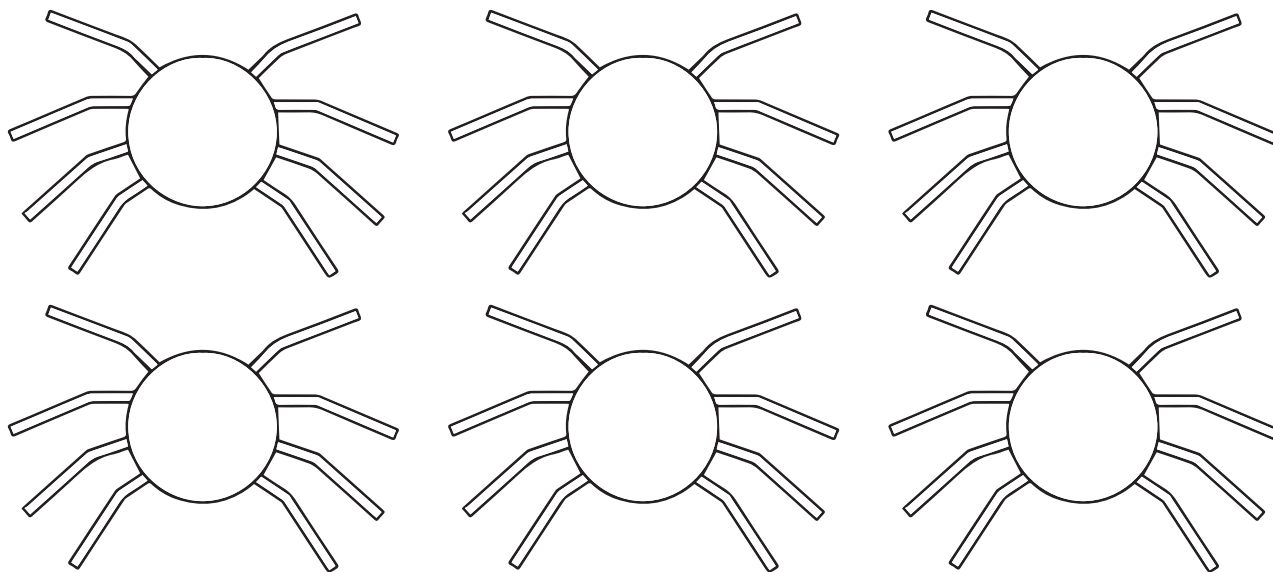1. Amy has a lot of work to complete. Help her complete the pattern she started.

2. Justice is building a railway track for his toy train. He decided to use match sticks. Look carefully at the pattern he made with the match sticks while he was building

a) Describe what Justice changes each time in his pattern.

_____

b) Draw the next two shapes in the pattern.

_____

_____

_____

3. Look at these spiders creeping along with all their legs.

a) Can you complete the flow-chart below? Don't forget to fill in what happens in the middle of the flow chart

Example: 1 spider ➤ ? legs

_____

_____

b) Describe the pattern in your own words.

_____

_____

_____

_____

Answers

1. Amy has a lot of work to complete. Help her by completing the pattern she began in her picture frame.

2. Justice is building a railway track for his toy train. He decided to use match sticks. Look carefully at the pattern he made with the match sticks while he was building
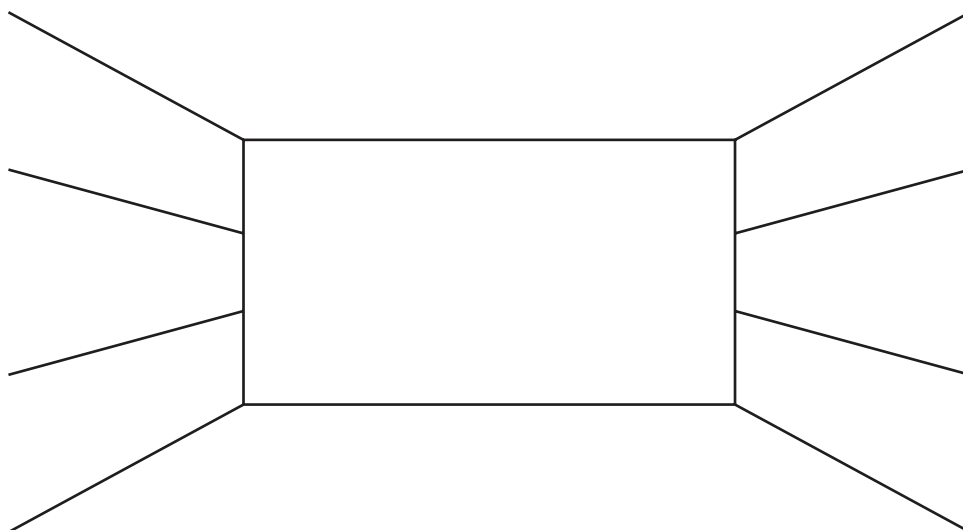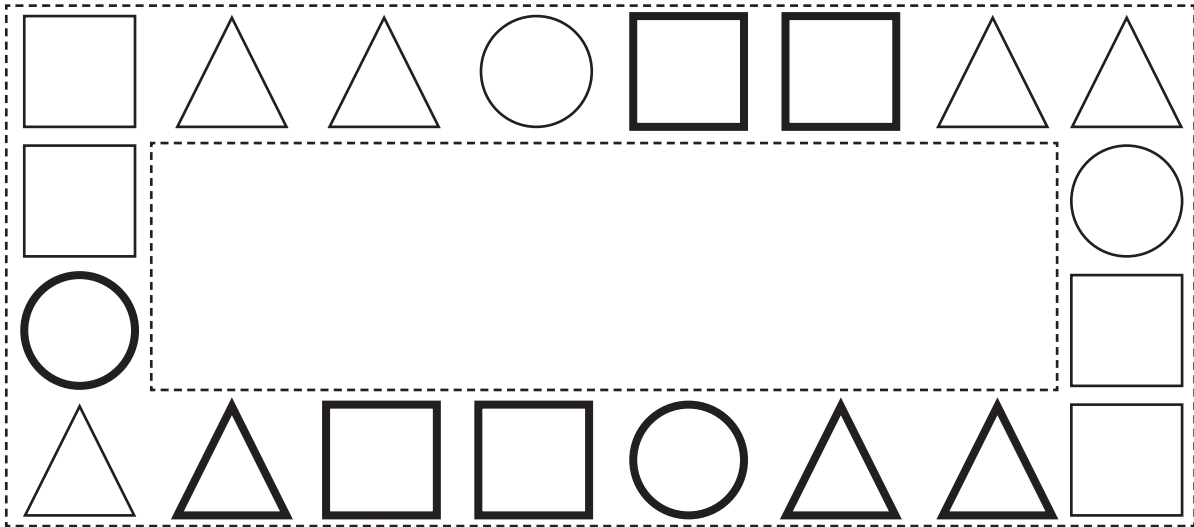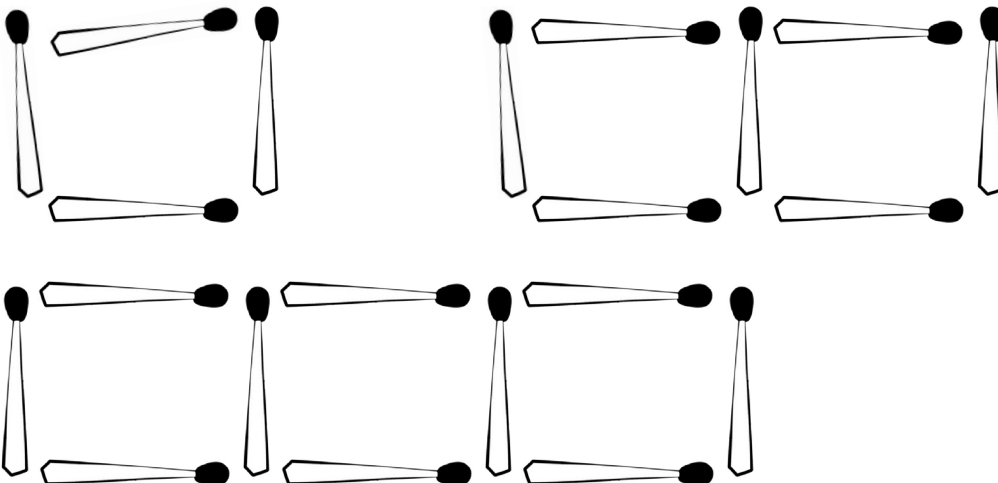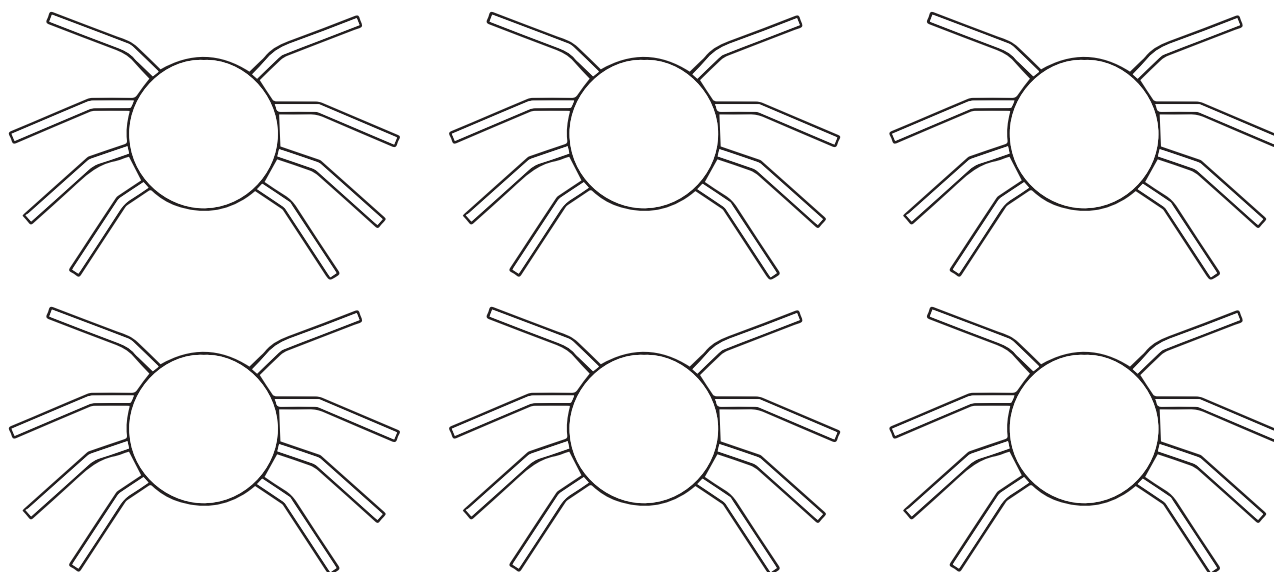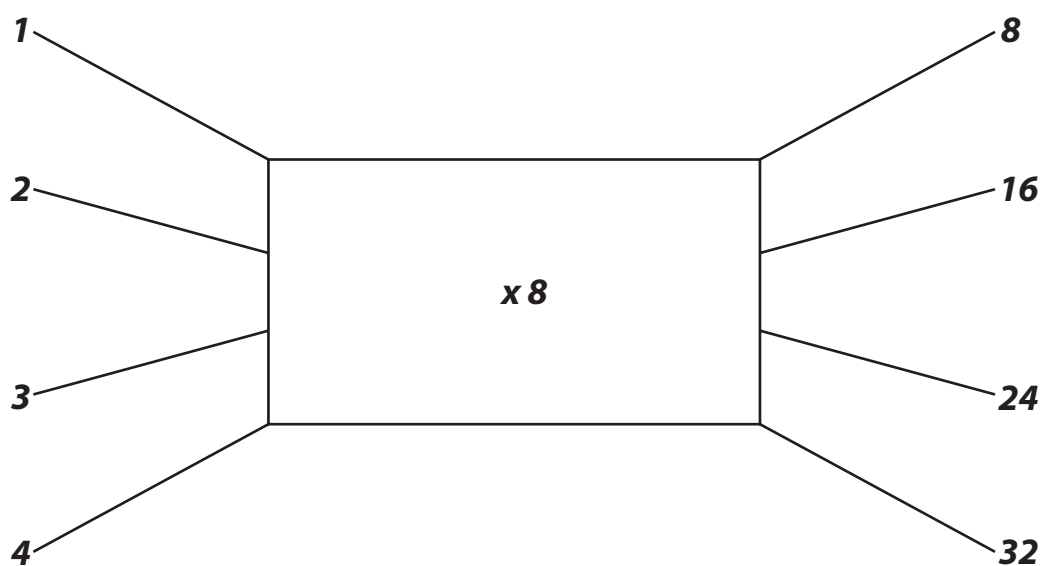

a) Describe what Justice changes each time in his pattern.
   Justice adds three matchsticks to the right of the shape each time.

b) Draw the next two shapes in the pattern.
   The next three shapes are four then five then six squares made of matchsticks. Four having 13 matchsticks, five having 16 matchsticks and six having 19 matchsticks.

3. Look at these spiders creeping along with all their legs.

a) Can you complete the flow-chart below? Don't forget to fill in what happens in the middle of the flow chart

1 ────╮   ╭──── **8**

2 ────╮   ┌─────────────┐   ╭──── **16**

                │   **x 8**   │

3 ────╯   └─────────────┘   ╰──── **24**

4 ────╯   ╰──── **32**

8 legs, 16 legs, 24 legs, 32 legs.
The centre of the flow-chart should contain x8

b) Describe the pattern in your own words.

    You multiply the number of spiders by 8