

Mango's shapes

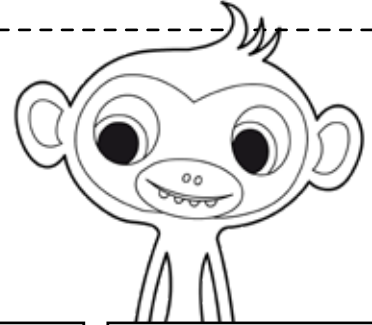
1 Read.

Mango has a box with lots of circles and lots of rectangles. She picks out 4 shapes and puts them in a line. What 4 shapes could they be?

2 Underline the question.

3 Circle the shapes and numbers.

4 Make patterns. Draw the pictures.



5 I found _____ different ways to solve the problem.

6 Can you find any more ways to solve the problem?
You can use the back of the paper.

Critical thinking and problem solving

Mathseeds encourages children to solve problems and use higher level thinking throughout the program. These critical thinking and problem solving worksheets provide a growing toolkit of different strategies, using a simple structure that helps children grow in skills and confidence. The more experience children have with higher-level thinking, the more confidence they will gain to think logically, take risks, ask questions and apply reason. In turn, this will encourage them to communicate, explain and justify their mathematical reasoning.

Children should tackle each problem using this simple structure.

1. Read the question

Encourage children to read the question carefully.

2. Underline the question

What is the question asking them to do? In turn, children can ask their own questions such as: Is this an addition problem? Do I need to draw a shape? Am I being asked to measure something?

3. Circle the facts

Focus on the important facts needed to solve the problem. These might be numbers, words or phrases that are key to understanding and interpreting the problem.

4. Use a strategy to solve the problem

Many of these activities will guide children in the use of a specific strategy. Some activities are open-ended where children will need to choose a strategy.

5. Evaluate

Encourage children to think about how they solved the problem; to check their answer and to share their solutions with a partner. Consider other ways or strategies they could have used to find a solution. This encourages children to reflect, to analyse, to ask questions and to explore alternate options.

Lesson 15 • Mango's shapes

The strategies used in this lesson are:

Act it out and **Look for patterns**

Making patterns is about creating structured sequences. When children can do this, they ultimately learn to predict what comes next. These predictions can help children to solve many different types of problems.

Children will need pattern blocks: rectangles and circles.



Mango's shapes

Answers!

1 Read.

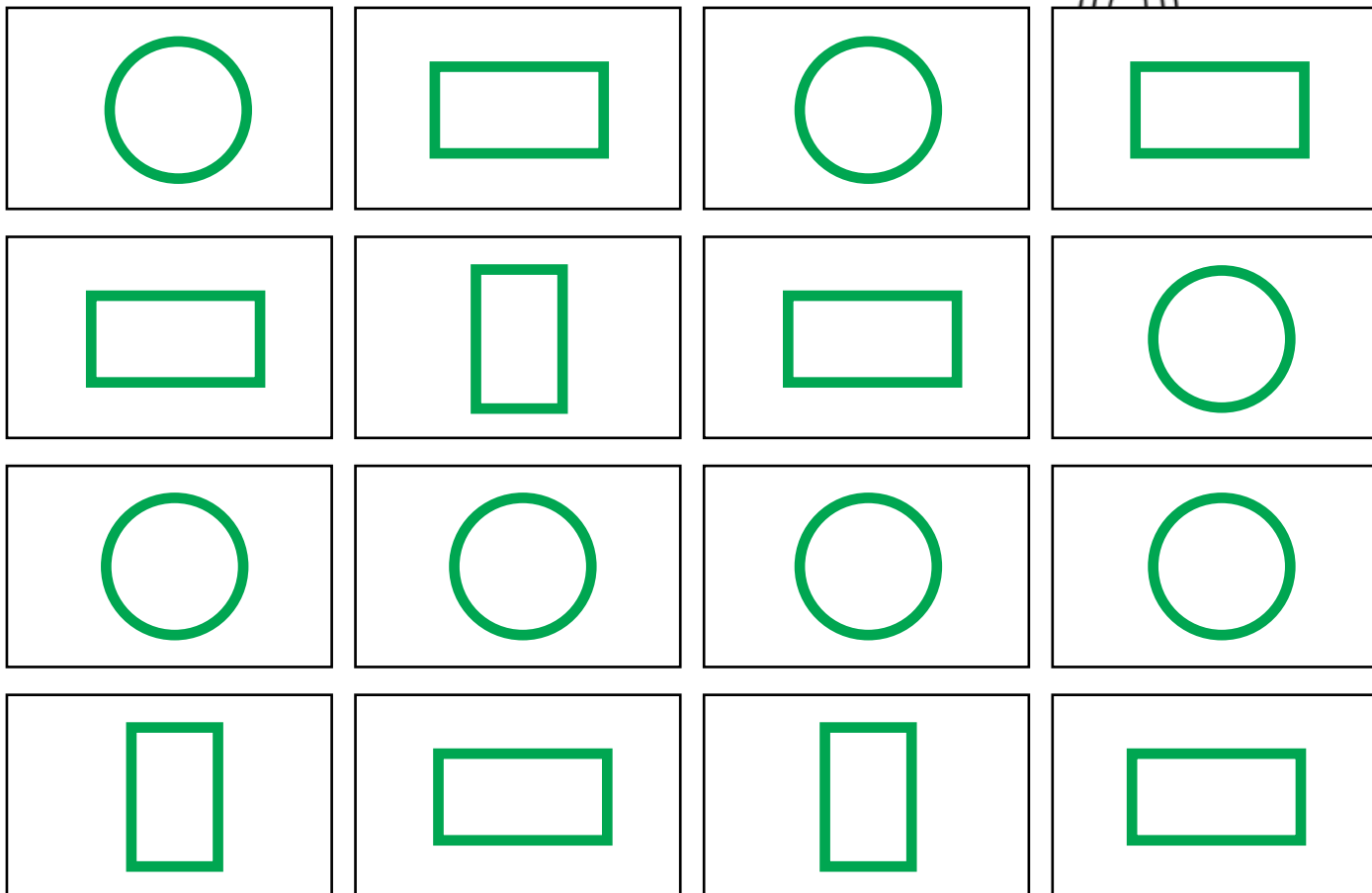
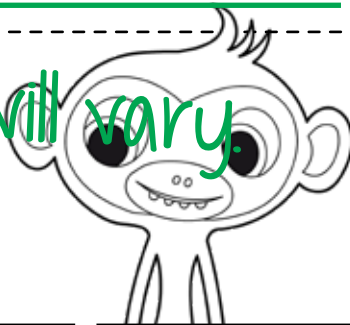
Mango has a box with lots of circles and lots of rectangles. She picks out 4 shapes and puts them in a line. What 4 shapes could they be?

2 Underline the question.

*Answers will vary.

3 Circle the shapes and numbers.

4 Make patterns. Draw the pictures.

5 I found 4 different ways to solve the problem.

6 Can you find any more ways to solve the problem?
You can use the back of the paper.