Introduction

What would the 20th shape in the pattern be?

▲ ● ● ▲ ● ● ▲ ● ●

Introduction

What would the 20th shape in the pattern be?

▲●●▲●●▲●●

A circle

Varied Fluency 1

Tick the statements which are correct.

For every triangle and 2 circles, there are 3 squares.

For every triangle there are 2 squares.

For every 2 circles there will be 1 triangle.

Varied Fluency 1

Tick the statements which are correct.

For every triangle and 2 circles, there are 3 squares. ✓

For every triangle there are 2 squares.

For every 2 circles there is 1 triangle. ✓

Varied Fluency 2

True or false?

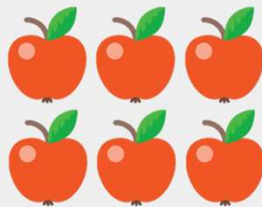# For every triangle there are 2 circles.

Varied Fluency 2

True or false?

For every triangle there are 2 circles.
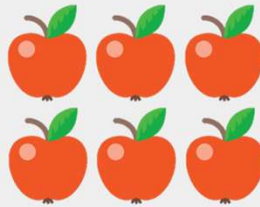
True

Varied Fluency 3

Complete the sentence.

There are 6 _____ for every 5 _____ .

Varied Fluency 3

Complete the sentence.

There are 6 __apples__ for every 5 __oranges__ .

Varied Fluency 4

Fill in the missing numbers.

There are 2 triangles for every 8 squares.

If there is 1 ▲ , there will be ☐ ◼ .

Varied Fluency 4

Fill in the missing numbers.

There are 2 triangles for every 8 squares.

If there is 1 ▲ , there will be **4** ■ .

Reasoning 1

Becky has different coloured counters.

There are 2 blue counters for every 8 green counters.

Becky says,

> **If there were just 1 blue counter, there would be 6 counters in total.**

Is she correct? Explain how you know.

Reasoning 1

Becky has different coloured counters.

There are 2 blue counters for every 8 green counters.

Becky says,

> If there were just 1 blue counter, there would be 6 counters in total.

Is she correct? Explain how you know.

Becky is incorrect because…

Reasoning 1

Becky has different coloured counters.

There are 2 blue counters for every 8 green counters.

Becky says,

If there were just 1 blue counter, there would be 6 counters in total.

Is she correct? Explain how you know.

Becky is incorrect because if there was 1 blue counter, there would be 4 green counters. 1 + 4 = 5.

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Problem Solving 1

Eesa has a bag of shopping containing strawberries and oranges.

There are 12 pieces of fruit altogether.

Write 3 different sentences which explain the possible ratios of the fruit.

Problem Solving 1

Eesa has a bag of shopping containing strawberries and oranges.

There are 12 pieces of fruit altogether.

Write 3 different sentences which explain the possible ratios of the fruit.

Various answers that add up to 12, for example:

1 and 11; 2 and 10; 3 and 9

Reasoning 2

Harrison and Tobias are looking at the relationship between strawberries and lemons.

Harrison thinks that if there was one strawberry, there would be 2 lemons.

Tobias thinks that if there was 1 strawberry, there would be 3 lemons.

Who is correct? Explain how you know.

Reasoning 2

Harrison and Tobias are looking at the relationship between strawberries and lemons.

Harrison thinks that if there was one strawberry, there would be 2 lemons.

Tobias thinks that if there was 1 strawberry, there would be 3 lemons.

Who is correct? Explain how you know.

Tobias is correct because…

Reasoning 2

Harrison and Tobias are looking at the relationship between strawberries and lemons.

Harrison thinks that if there was one strawberry, there would be 2 lemons.

Tobias thinks that if there was 1 strawberry, there would be 3 lemons.

Who is correct? Explain how you know.

Tobias is correct because there are 3 strawberries for every 9 lemons, so if there were 1 strawberry, there would be 3 lemons.