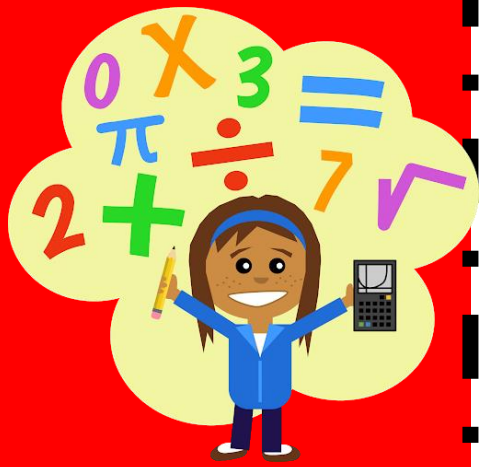
Week 11:

Maths Home learning pack



Information to support this week's learning

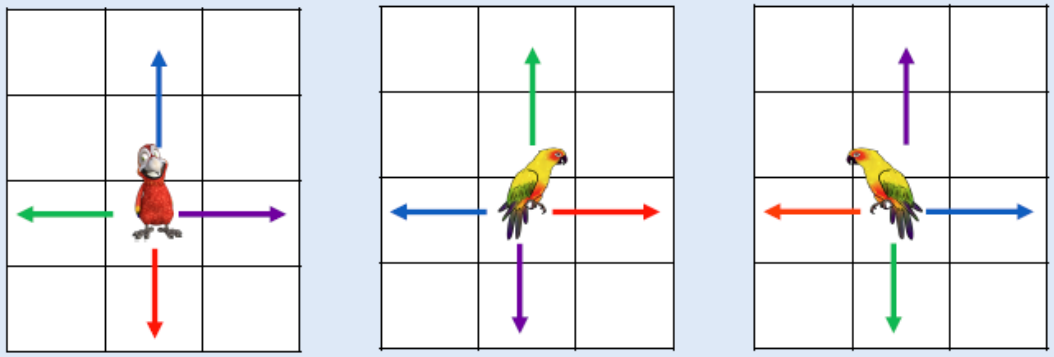
This week we will be focusing on **position and direction**. Please use the information below to support you throughout the activities.

Read me

We have to look carefully at what way an object is facing when describing movement.

A red arrow shows forwards. A blue arrow shows backwards.

A green arrow shows left. A purple arrow shows right.



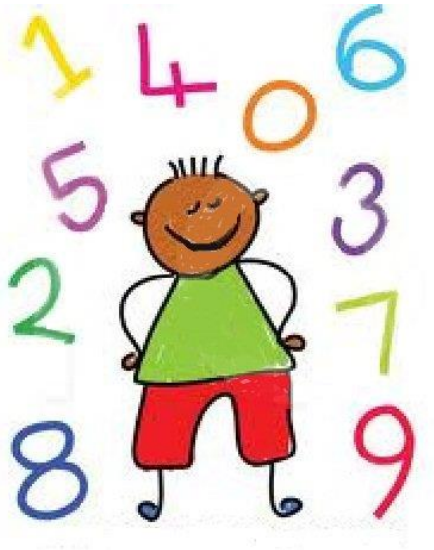
Can you see that the arrows/directions have changed because the parrot is facing a different direction?

Hint: When giving or recording your answers for the instructions. Always stand facing the same direction as the character.

Home learning...

Remember to post pictures of your work in the Class dojo Forum to receive Dojo point!

Plus, don't forget the daily challenge



Lesson 1:

Starter:

Can you subtract by counting back?

17 - 4 =

59 - 7 =

15 - 8 =

80 - 3 =

61 - 6 =

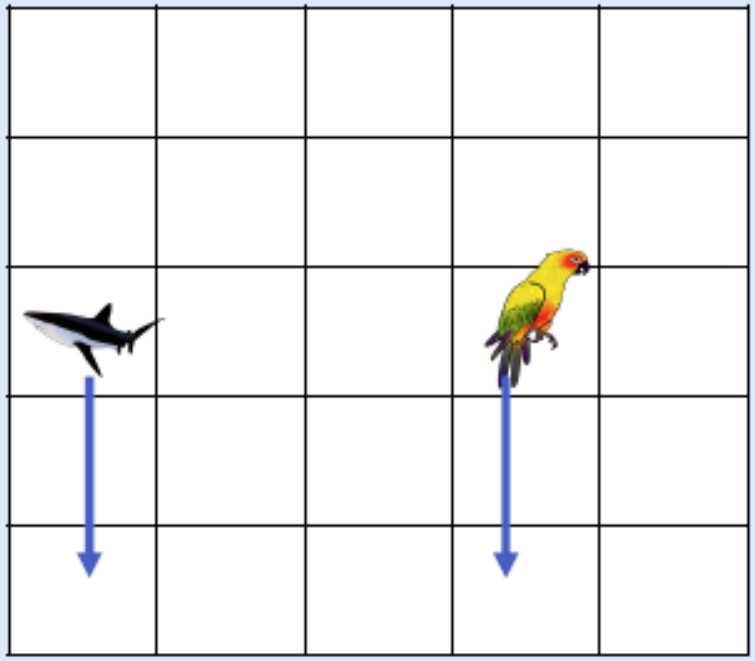
20 - 9=

48 - 9=

101 - 10 =

Main: Describing movement

When looking at this grid, we will be using our left and right to decide which way the animals have turned. Remember to look at the way the animals are facing!



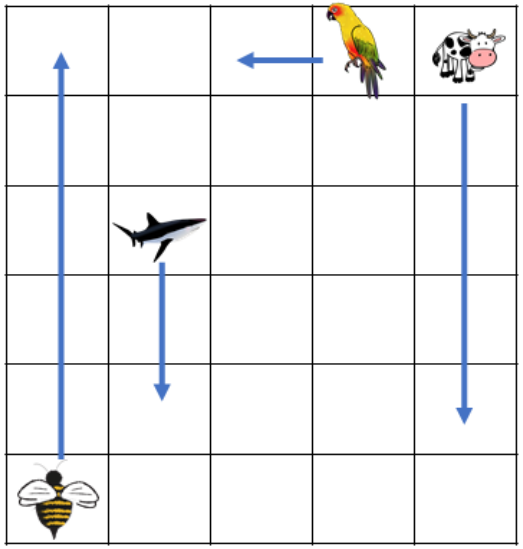
The picture of the shark shows it has turned left, not forward because of the way it is facing.

Use your pencil to pretend it is the shark. Which way would be left and which way would be right?

Has the parrot moved left, right, forwards or backwards?

Answer: The parrot has moved right because of the way it is facing

Complete the stem sentences to describe the movements made.



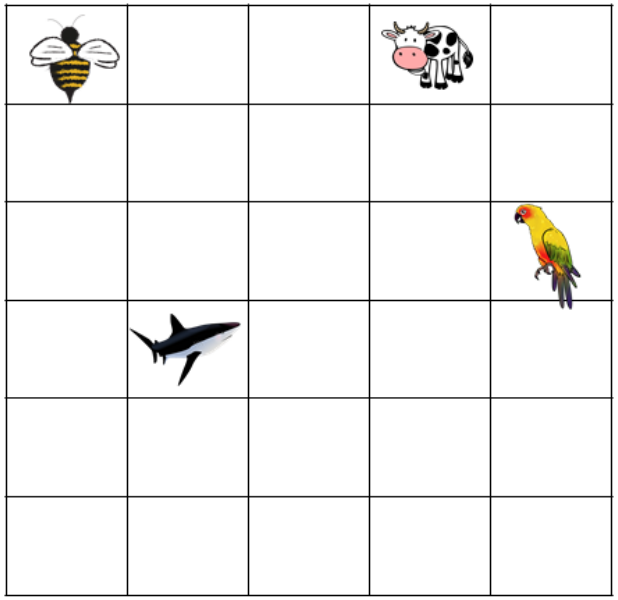
The  has moved 1 square _____.

The  has moved _____ squares _____.

The _____ has moved 2 squares right.

The _____ has moved _____ squares forward.

Record these movements on the grid using arrows.



The  moves 1 square forward.

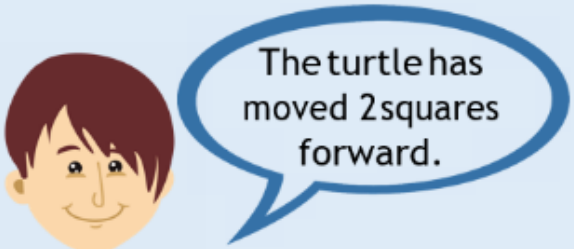
The  moves 3 squares left.

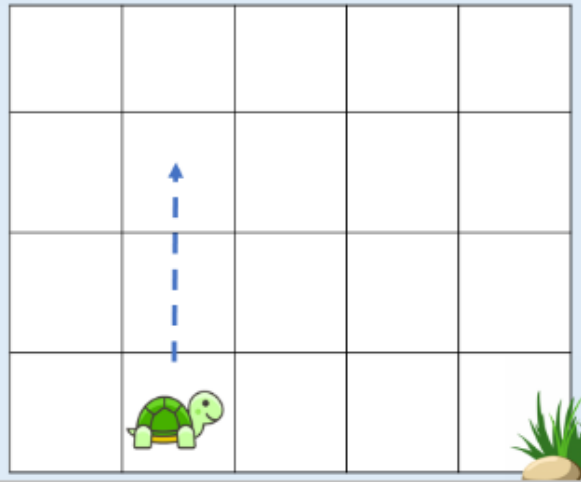
The  moves 2 squares right.

The  moves 4 squares backwards

Reasoning 1 — Describing Movement

Amir





Is Amir correct?
Explain your reasoning.

Reasoning 1 answer:

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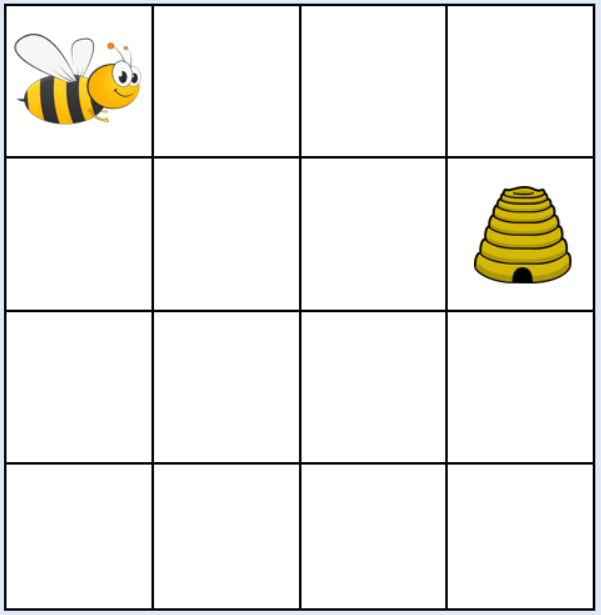
Reasoning 2 — Describing Movement



How many different routes can you plot for the bee to get to the hive?

Use the words forwards, backwards, left and right.

Reasoning 2 answer:

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Lesson 2:

Starter:

Work out the difference.

17 - ___ = 13

39 - ___ = 26

25 - ___ = 17

20 - ___ = 17

91 - ___ = 85

100 - ___ = 81

88 - ___ = 69

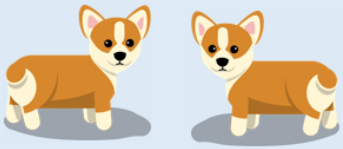
42 - ___ = 22

Main: Describing turns

Key vocabulary:

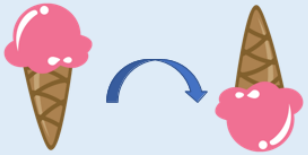
‘full turn’, ‘half turn’, ‘quarter turn’, ‘three-quarter turn’, ‘clockwise’ and ‘anticlockwise.’

Match the turn to the description.

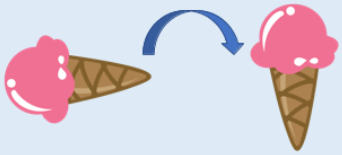


- A full turn.
- A quarter turn clockwise
- A half turn anticlockwise

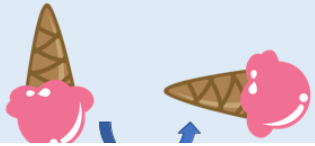
Describe how the object has turned each time.



The ice cream has made a_____turn_____.



The ice cream has made a_____turn_____.



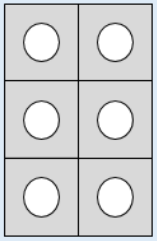
The ice cream has made a_____turn_____.

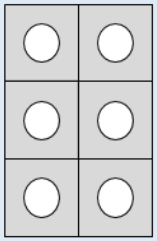
Reasoning 1 Describing Turns

Look at the number shape below.

How could the number shape have turned?

Describe all possibilities.





Reasoning 1 answer:

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Reasoning 2 answer:

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Reasoning 2 Describing Turns

Always, Sometimes, Never

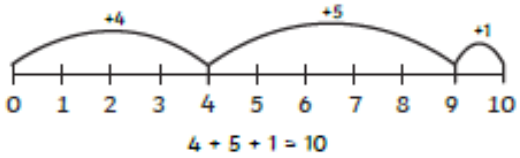
If two objects turn in different directions, will they not be facing the same way?

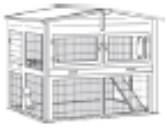
Lesson 3:

Starter:

3 Hops to 10

Example

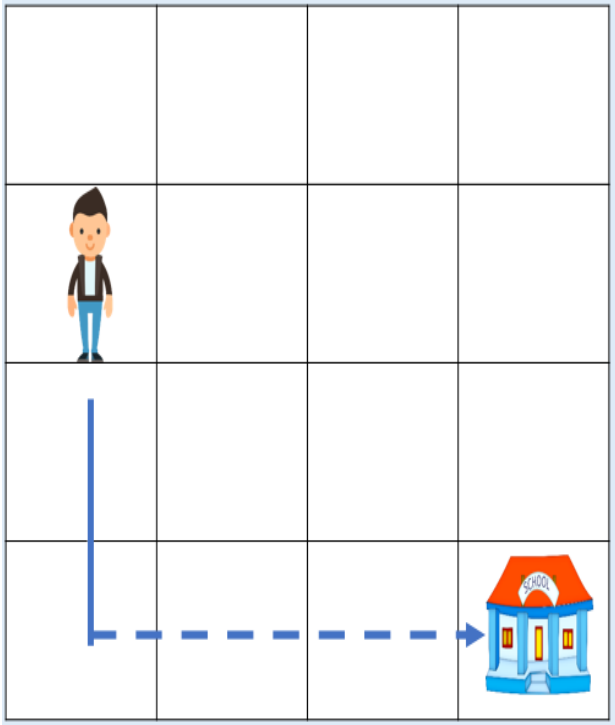




Peter Rabbit says he can get back to his run in 3 hops! Find different ways that Peter can do this and draw them on the number lines. Can you write number sentences to match his hops?

Main: Describing movement and turns

Describe the route Dennis takes to school.

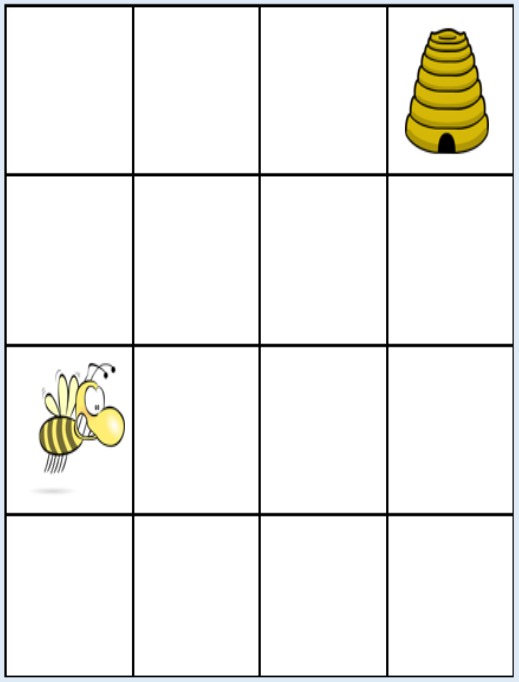


Forward_____ squares.

Turn_____.

Forward_____squares.

Draw the route to show these directions.



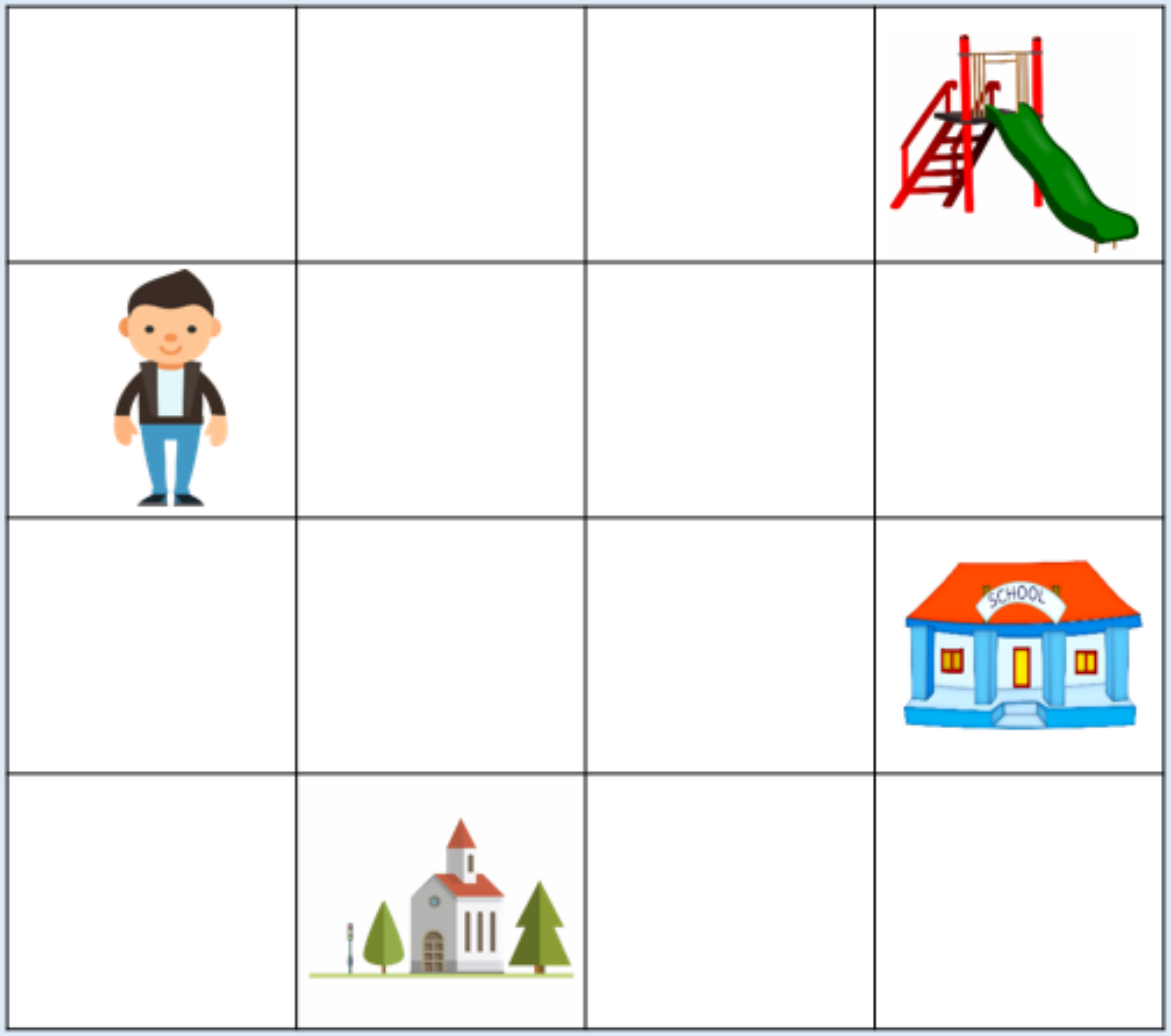
Forward 1 square. Turn left.

Forward 1 square, quarter turn anticlockwise.

Forward 1 square. Make a quarter turn clockwise.

Forward 1 square. Make a quarter turn clockwise. Forward 3 squares.

Write the directions for Dennis to get to each place on the map.



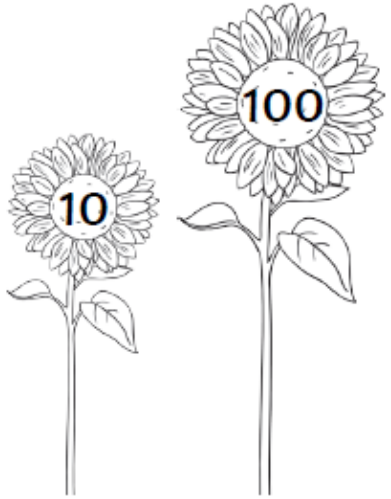
Lesson 4:

Starter:

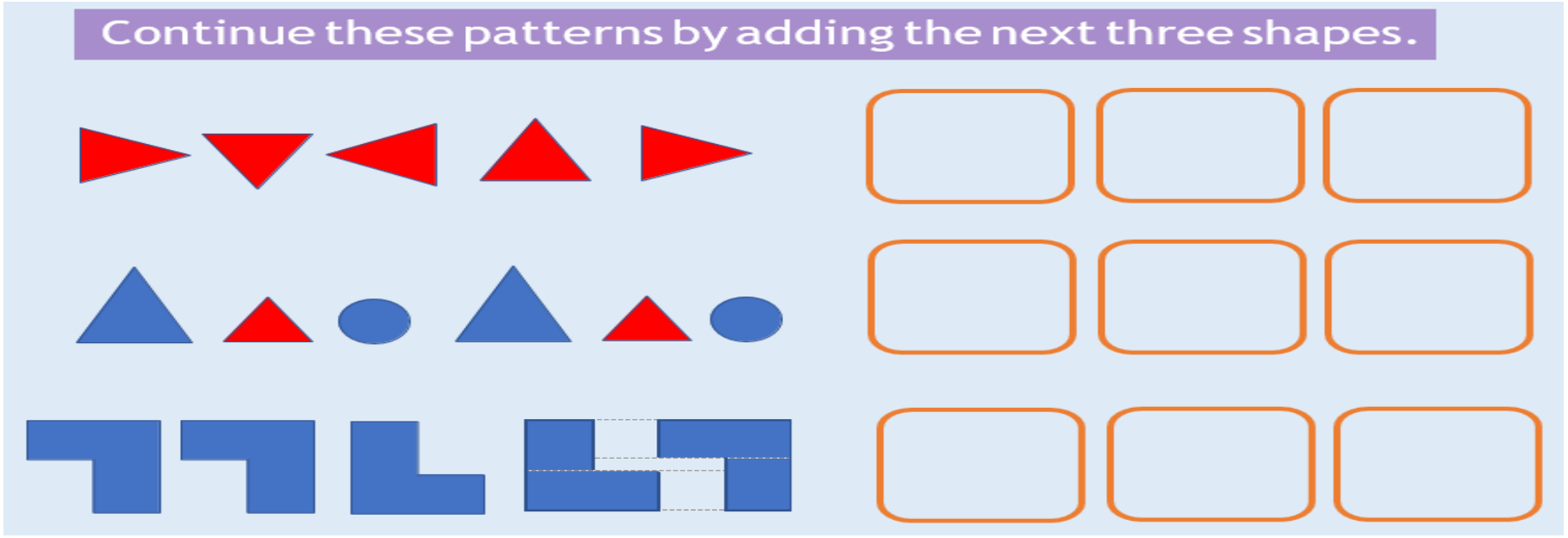
Deriving Facts to 100

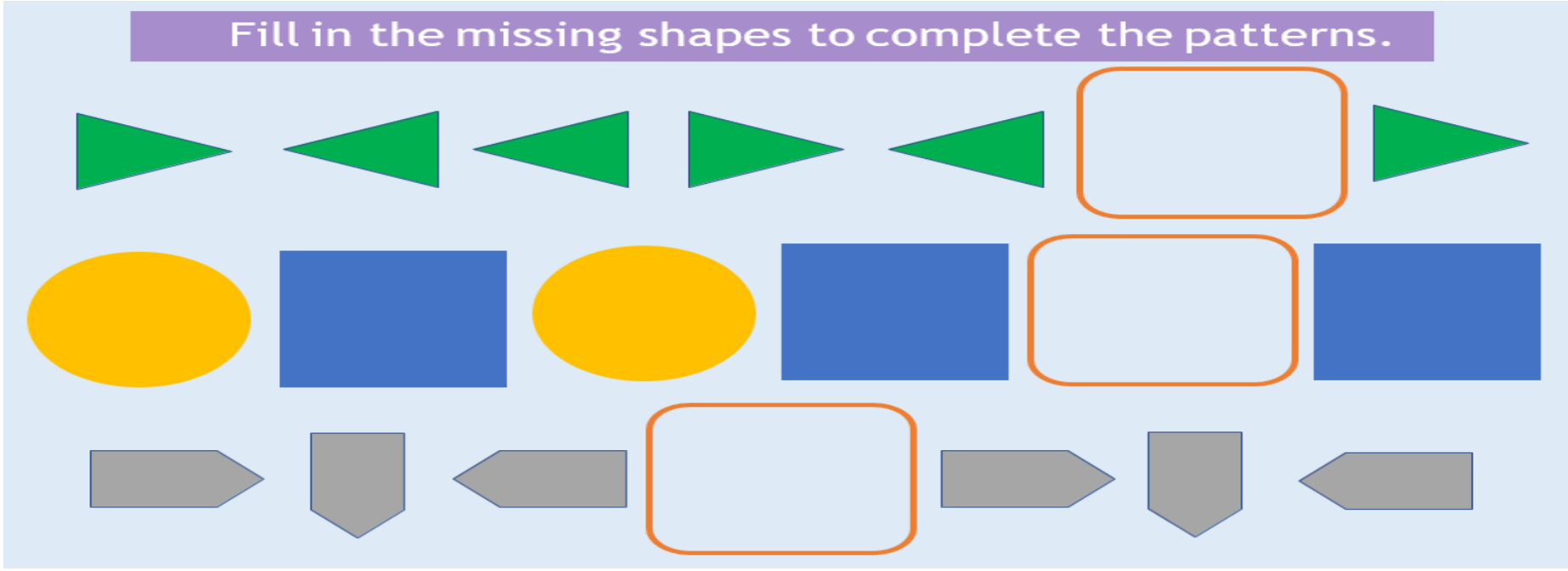
For each of the following, complete the number fact to 10 and then derive the number fact to 100. The first one has been done for you.

7 + 2 = 9	7 - 4 =
70 + 20 = 90	70 - 40 =
4 + 6 =	3 + 6 =
40 + 60 =	30 + 60 =
5 - 3 =	8 - 3 =
50 - 30 =	80 - 30 =
10 - 7 =	9 + 1 =
100 - 70 =	90 + 10 =
5 + 4 =	3 - 2 =
50 + 40 =	30 - 20 =
9 - 8 =	10 - 5 =
90 - 80 =	100 - 50 =



Main: Making patterns with shapes





Describe the turn of each pattern.

1

How many different patterns can you create using this shape?

2

Who is correct?

John

The rule is turn the shape aquarter turn.

The rule is turn the shape three quarters.

Rose

Spot the mistake in each pattern. Explain why they are incorrect.

3

4

Answers:

1.

2. .....

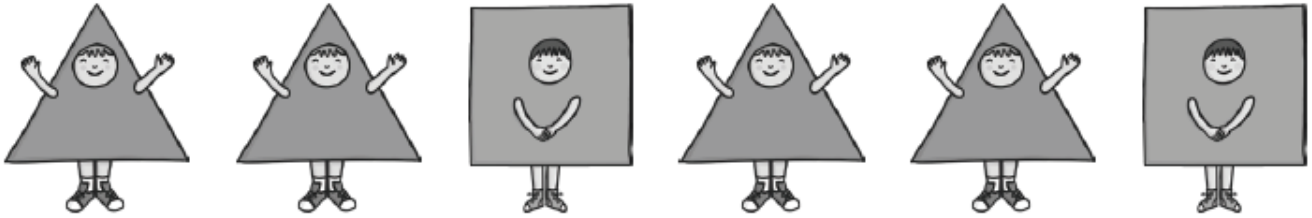
.....

.....

3.

4.

Friday assessment



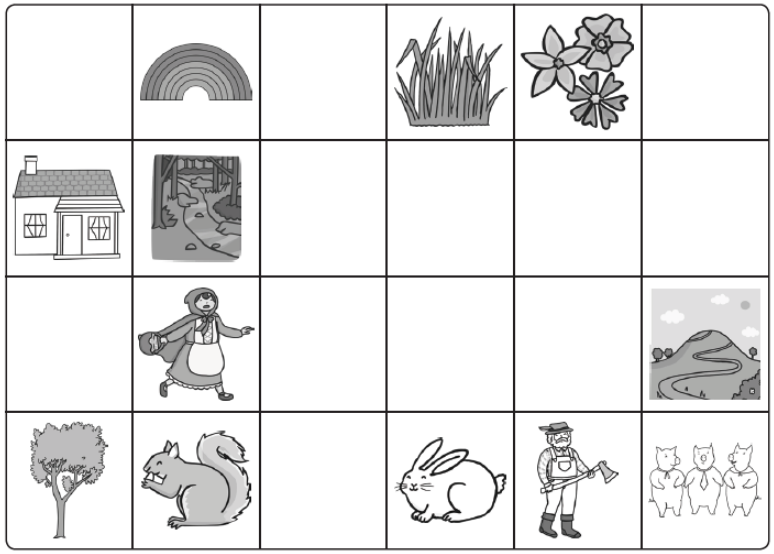
a) What will the next shape in the pattern be?

b) What will the 12th shape be?

c) How do you know?

d) Circle the shape that goes next in the pattern.

e) Can you describe what is happening in this pattern? You might use words like: clockwise, anticlockwise, half , quarter or three quarter turn.



a) Little Red Riding Hood is facing the hill. She does a quarter turn anticlockwise. What is she facing now? Tick one.

squirrel ☐ stream ☐

b) You are standing on the flowers facing towards the grass and rainbow. If you do a three quarter turn clockwise, what are you facing now?

c) The bunny does a quarter turn clockwise and hops forwards 3 squares. Where is he now?

d) The woodcutter is facing the 3 little pigs. Tell him how to turn and walk to the tree. Use words like: clockwise, anticlockwise, half , quarter or three quarter turn. Walk forwards _____squares.