

# Year 2 Maths Geometry

## Position and Direction

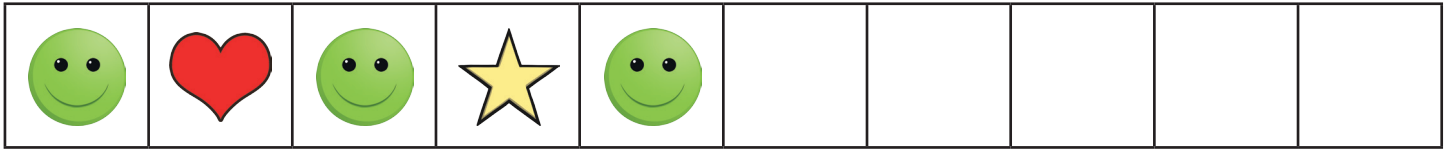
### Learning from Home Activity Booklet

Year 2 Programme of Study – Geometry: Position and Direction

Statutory requirements	Activity Sheet	Page Number	Notes
Order and arrange combinations of mathematical objects in patterns and sequences.	Find the Pattern	2	
Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).	Treasure Map  Rotating Arrows	3  4	
	Answers	5-7	

# Find the Pattern

Continue these patterns.



Rosie creates a pattern with coloured beads. Can you draw her pattern on the bead string? It goes yellow, yellow, blue, yellow, yellow, blue...



What colour will the 12th bead be? \_\_\_\_\_

What colour will the 20th bead be? \_\_\_\_\_

Rosie decides to put a green bead between each of the two yellow beads in her pattern. What does her bead string look like now?

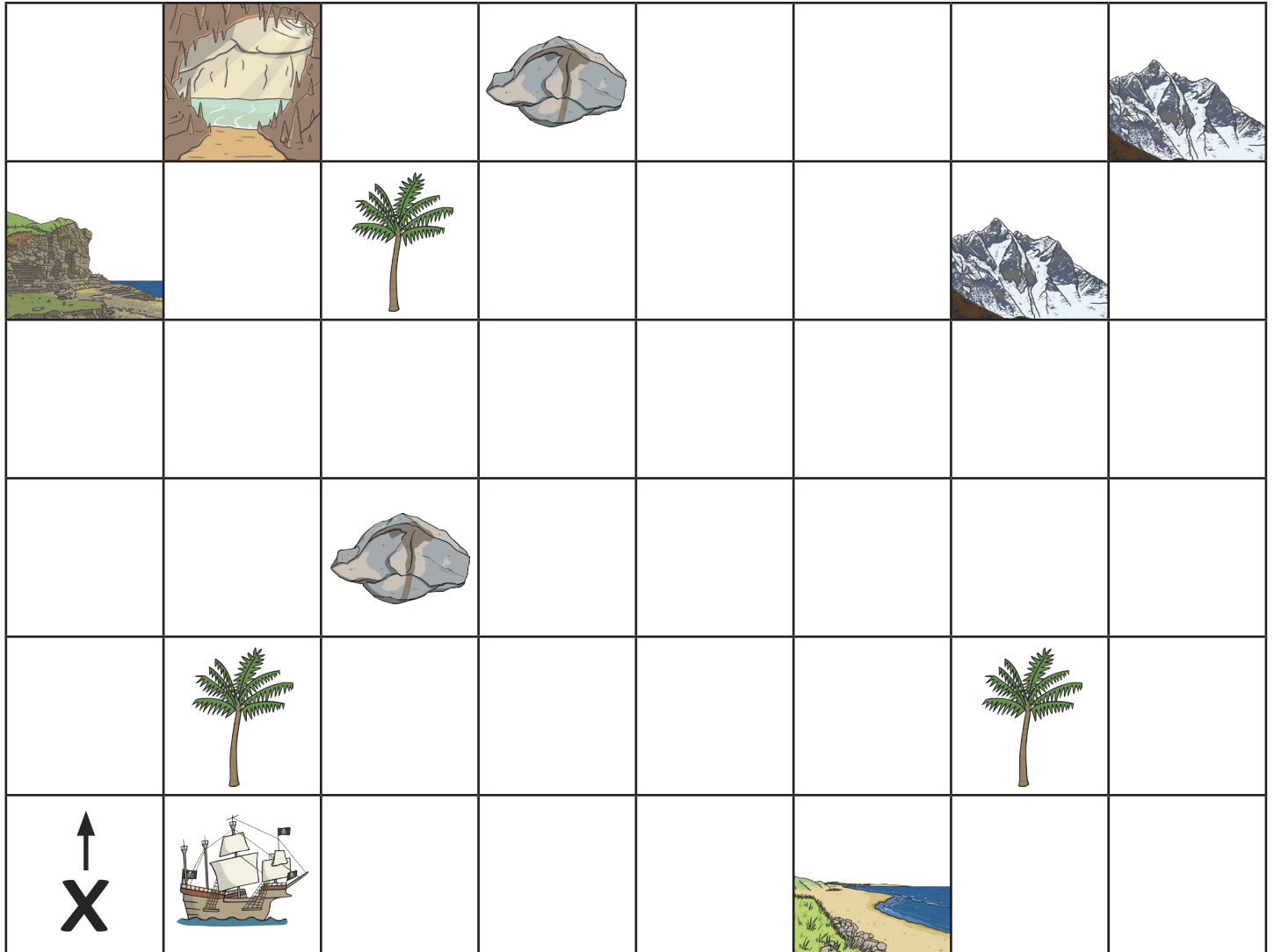


What colour will the 12th and 20th beads be now? \_\_\_\_\_

# Treasure Map



Help Pirate Pete find his way to the buried treasure, by following the instructions on the map.



Start at X.

Move 2 squares forward. Rotate clockwise.

Move 1 square forward. Rotate anti-clockwise.

Move 1 square forward. Rotate clockwise.

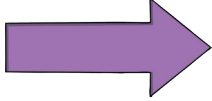
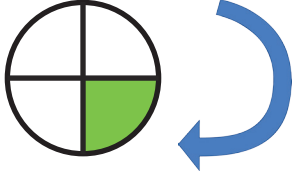
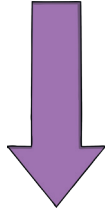
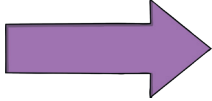
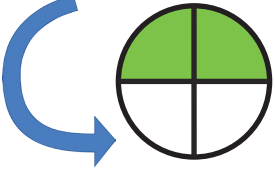
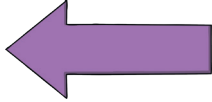
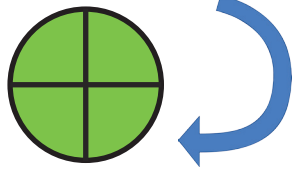
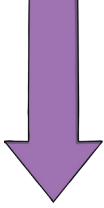
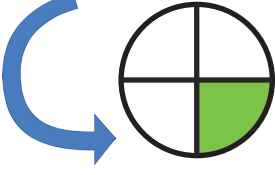
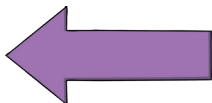
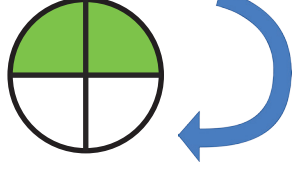
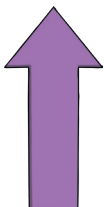
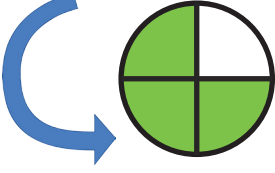
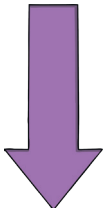
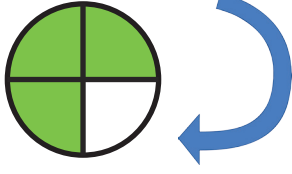
Move 3 squares forward. Rotate anti-clockwise.

Move 2 squares forward. Rotate clockwise.

Move 2 squares forward. Draw the treasure on the map!

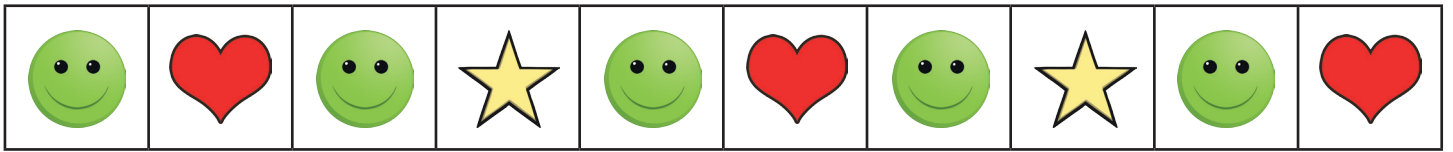
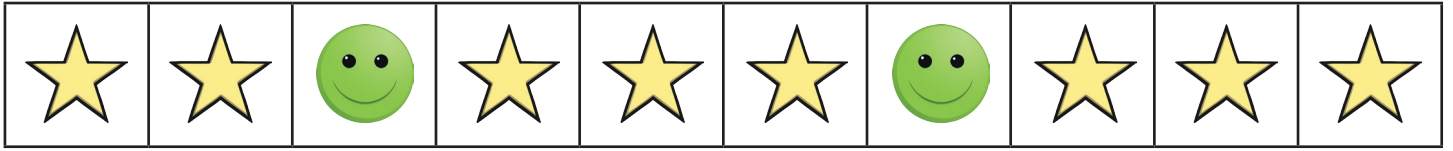
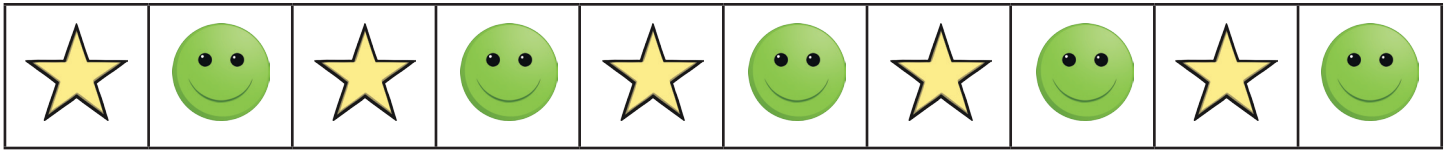


# Rotating Arrows

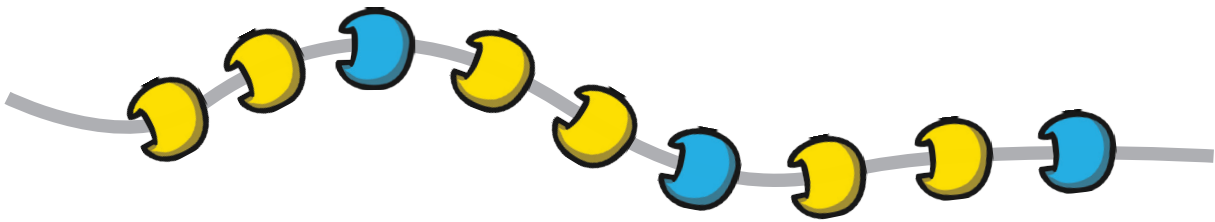
Start with...	Do this...	It will look like this:
	 <p>quarter turn clockwise</p>	
	 <p>half turn anti-clockwise</p>	
	 <p>full turn clockwise</p>	
	 <p>quarter turn anti-clockwise</p>	
	 <p>half turn clockwise</p>	
	 <p>three quarter turn anti-clockwise</p>	
	 <p>three quarter turn clockwise</p>	

# Find the Pattern Answers

Continue these patterns.



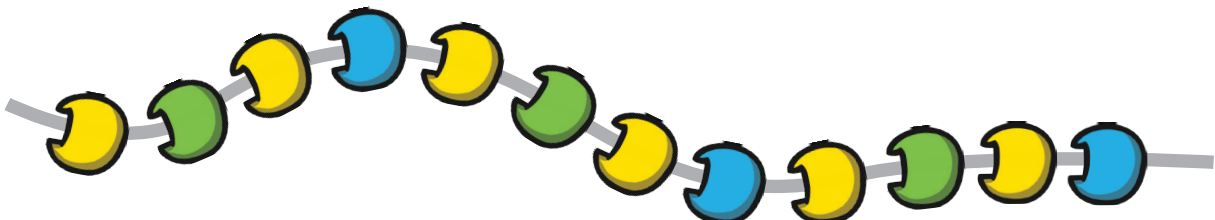
Rosie creates a pattern with coloured beads. Can you draw her pattern on the bead string? It goes yellow, yellow, blue, yellow, yellow, blue...



What colour will the 12th bead be? blue

What colour will the 20th bead be? yellow

Rosie decides to put a green bead between each of the two yellow beads in her pattern. What does her bead string look like now?

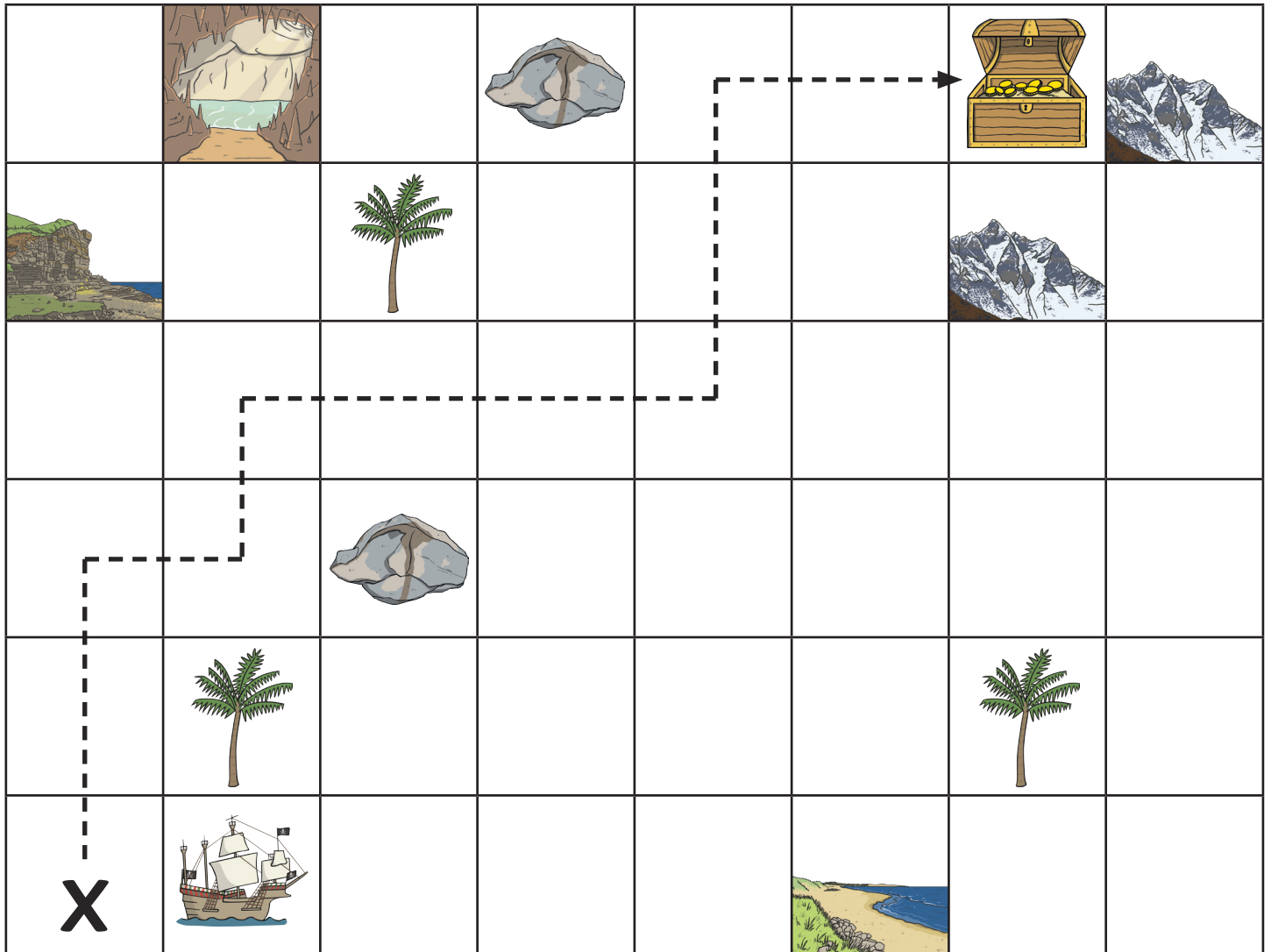


What colour will the 12th and 20th beads be now? both blue

# Treasure Map Answers



Help Pirate Pete find his way to the buried treasure, by following the instructions on the map.



Start at X.

Move 2 squares forward. Turn right.

Move 1 square forward. Turn left.

Move 1 square forward. Turn right.

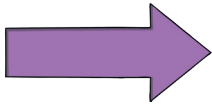
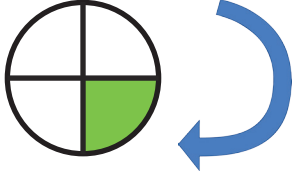
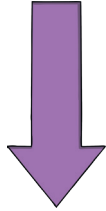
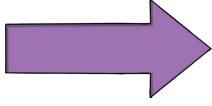
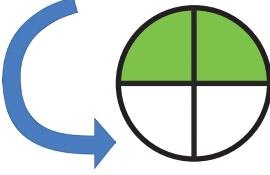
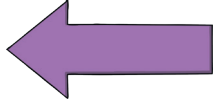
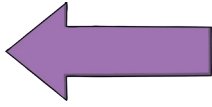
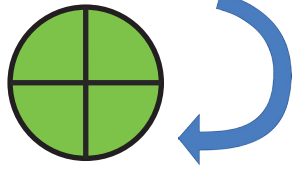
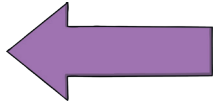
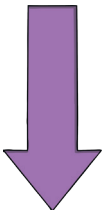
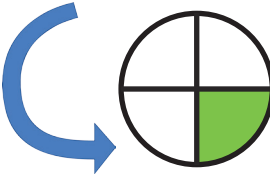
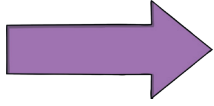
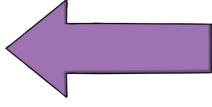
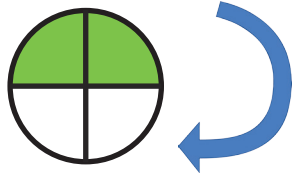
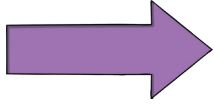
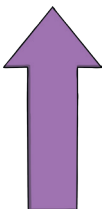
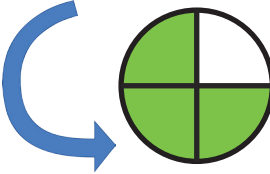
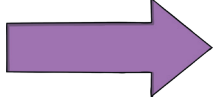
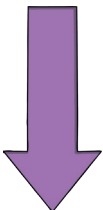
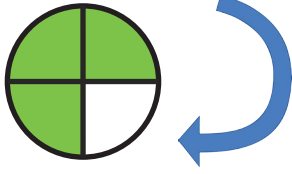
Move 3 squares forward. Turn left.

Move 2 squares forward. Turn right.

Move 2 squares forward. Draw the treasure on the map!



# Rotating Arrows Answers

Start with...	Do this...	It will look like this:
	 quarter turn clockwise	
	 half turn anti-clockwise	
	 full turn clockwise	
	 quarter turn anti-clockwise	
	 half turn clockwise	
	 three quarter turn anti-clockwise	
	 three quarter turn clockwise	