

Math is fun!

Worksheets

Year 4

Gozo College – Rabat Primary School
(Mr. George Curmi)

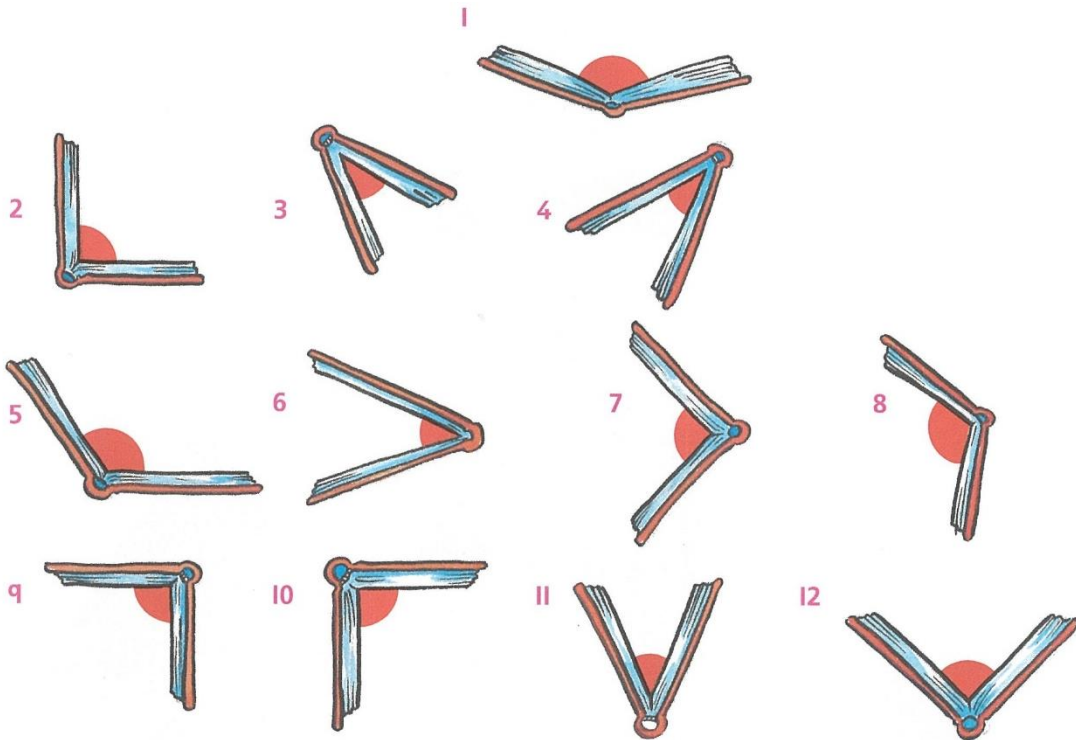
POSITION, DIRECTION AND ANGLES

NAME: _____

CLASS: _____

Right Angles

Are these right angles?

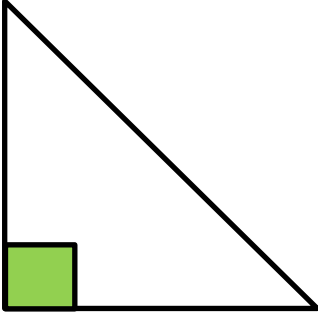
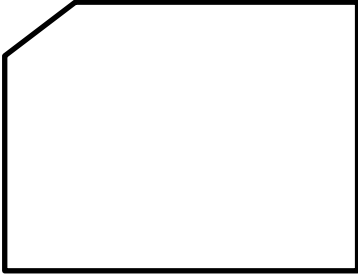
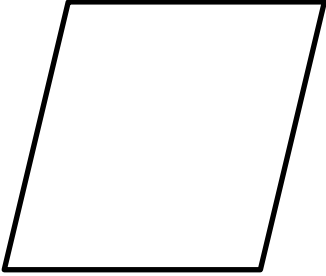


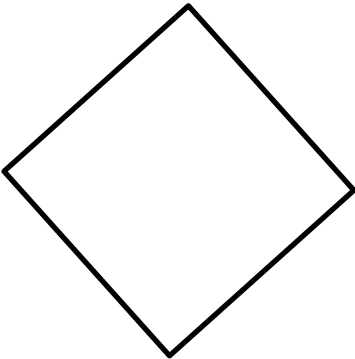
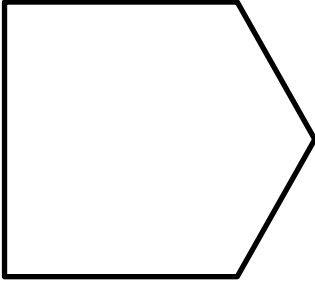
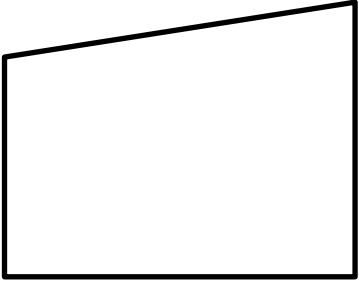
- 1.
- 3.
- 5.
- 7.
- 9.
- 11.

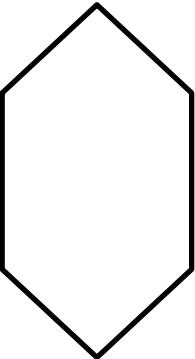

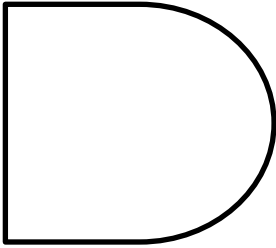
- 2.
- 4.
- 6.
- 8.
- 10.
- 12.

Right Angles

How many right angles are there in each of these shapes? Colour the right angles.

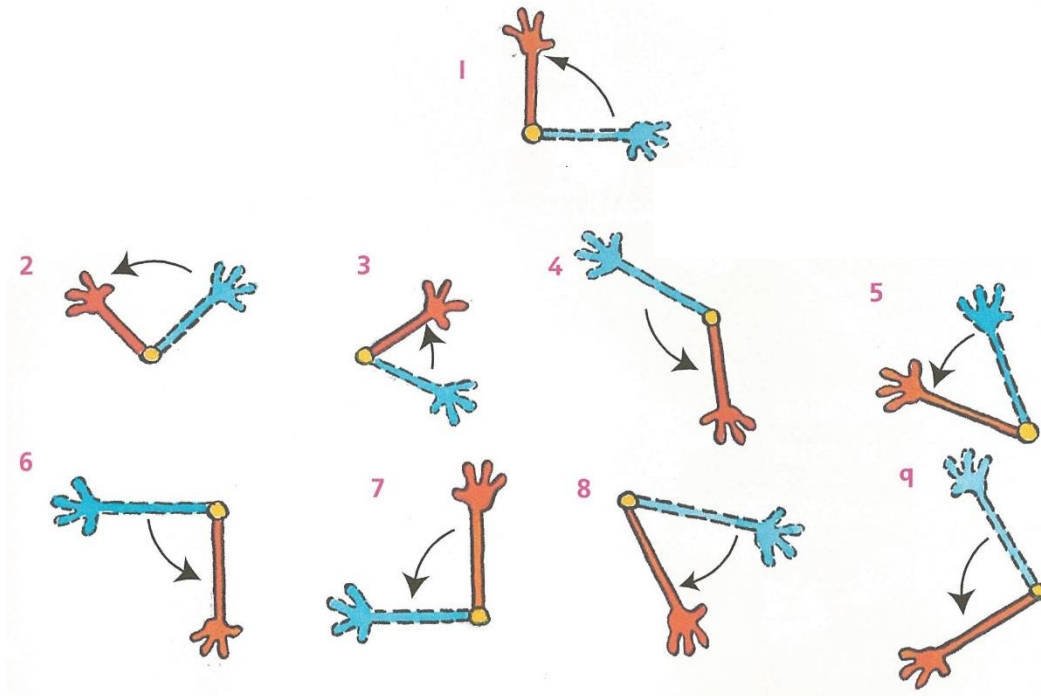
		
1 right angles	right angles	right angles

		
right angles	right angles	right angles

		
right angles	right angles	right angles

Right Angle Turns

Are these right angle turns?



1.

Yes

2.

3.

4.

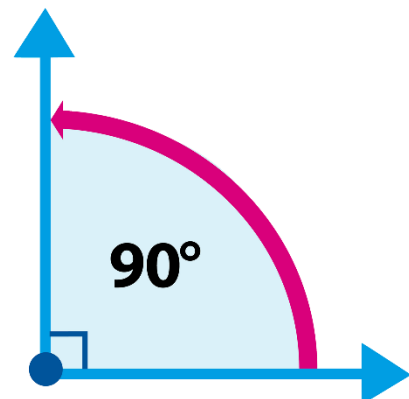
5.

6.

7.

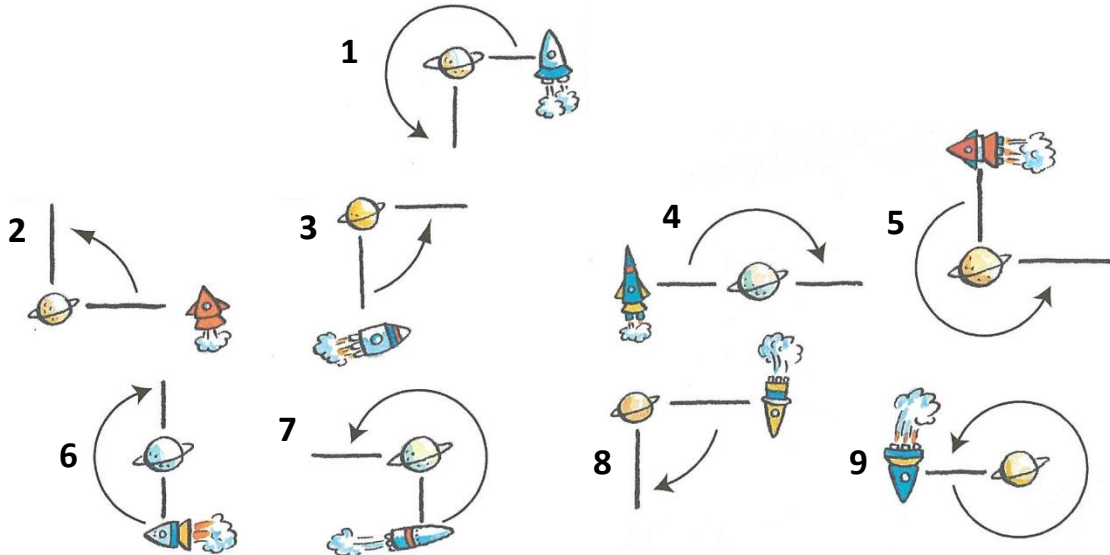
8.

9.



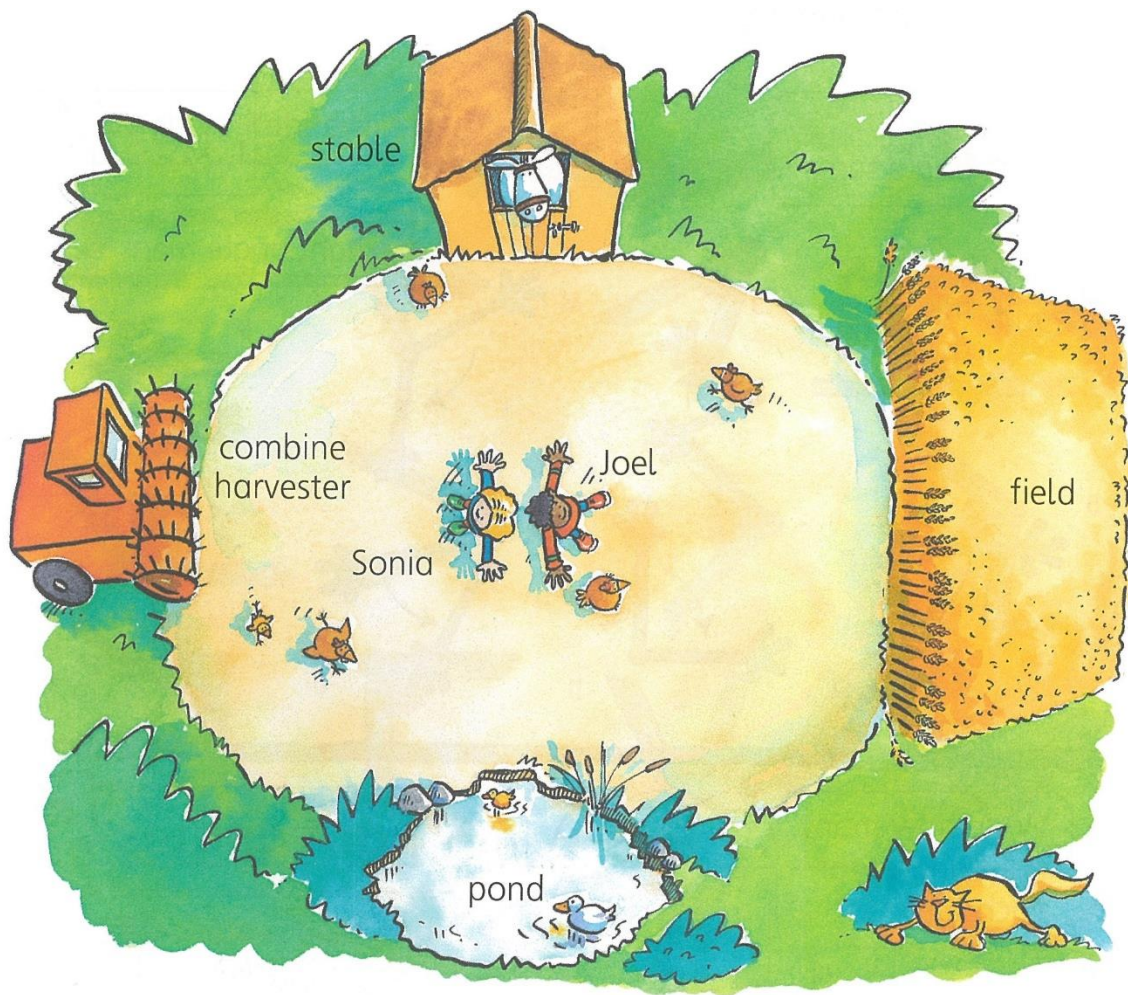
Right Angle Turns

Write how many right angles for each turn. Which turns are clockwise, which are anticlockwise?



1.	3 right angles	anticlockwise
2.	right angles	
3.	right angles	
4.	right angles	
5.	right angles	
6.	right angles	
7.	right angles	
8.	right angles	
9.	right angles	

Right Angle Turns



Joel turns clockwise. How many right angles to face:

combine harvester	2
pond	

stable	
field	

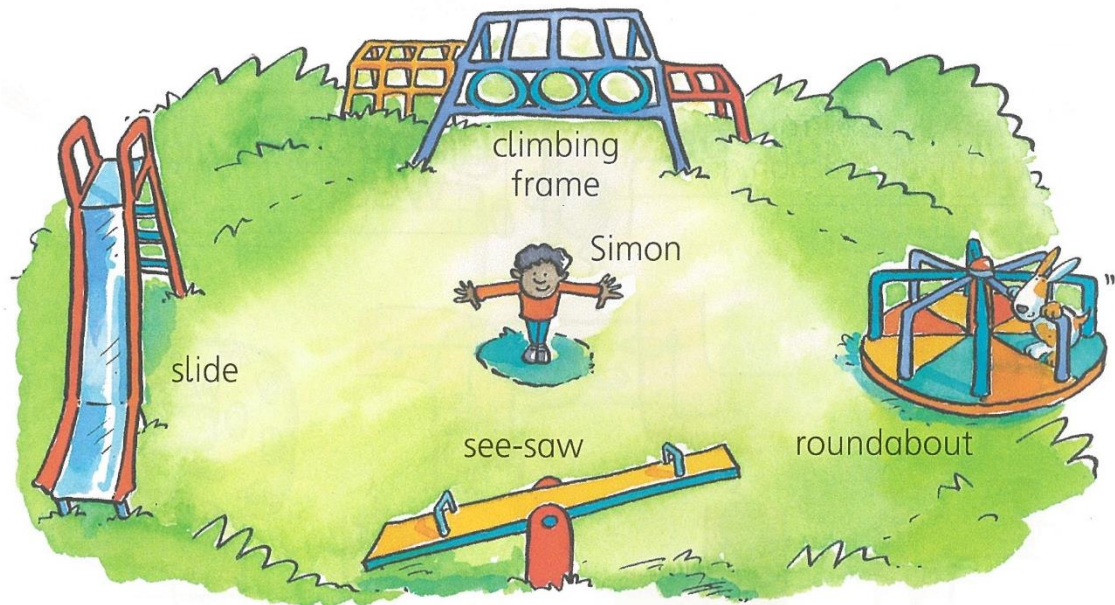
Sonia turns anticlockwise. How many right angles to face:

stable	
field	

pond	
combine harvester	

Right Angle Turns

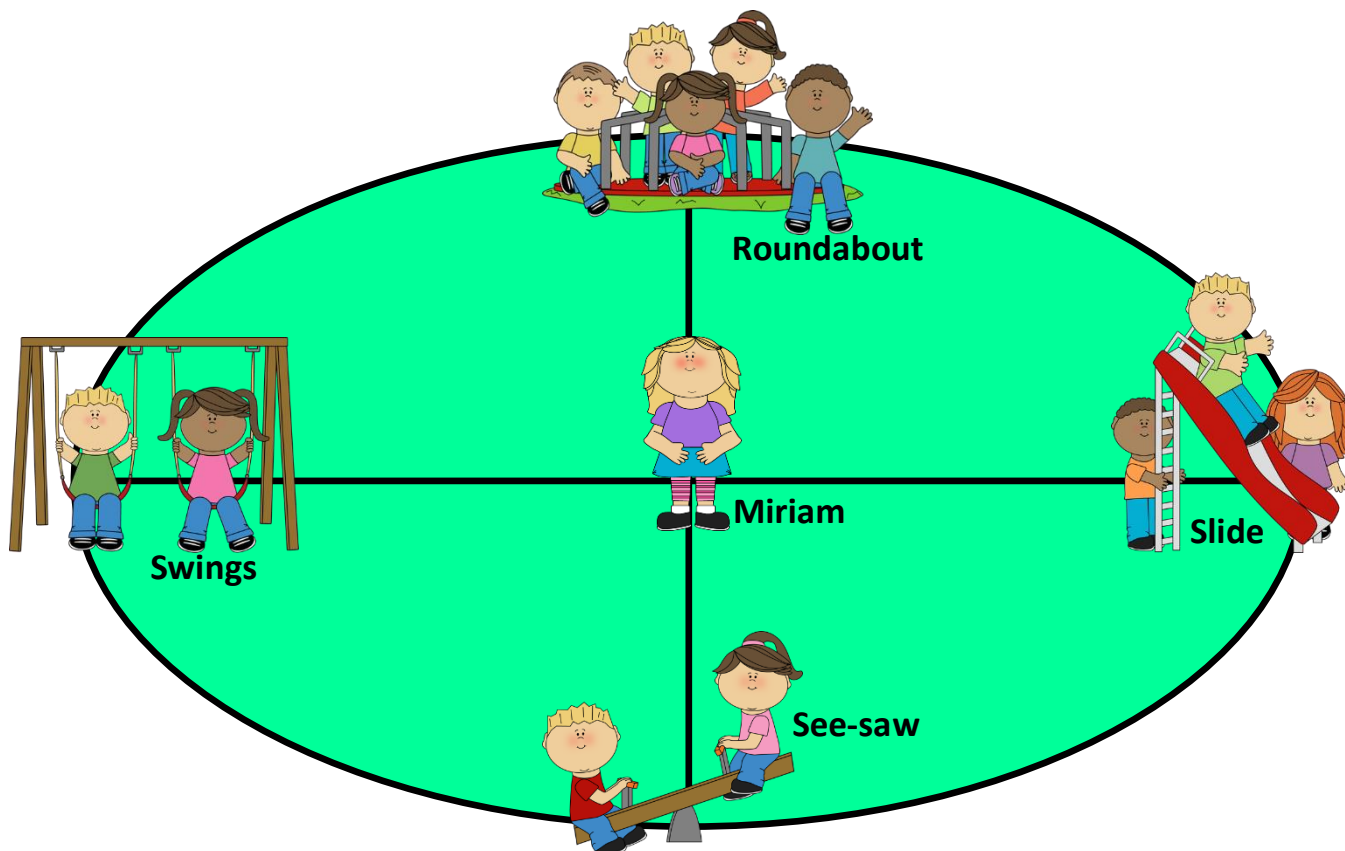
Where does Simon face after these turns?



1.	Face see-saw, turn clockwise 1 right angle.	slide
2.	Face slide, turn anticlockwise 3 right angles.	
3.	Face climbing frame, turn anticlockwise 1 right angle.	
4.	Face roundabout, turn clockwise 2 right angles.	
5.	Face climbing frame, turn clockwise 1 right angle.	
6.	Face slide, turn clockwise 3 right angles.	
7.	Face roundabout, turn anticlockwise 2 right angles.	
8.	Face see-saw, turn anticlockwise 3 right angles.	

Right Angle Turns

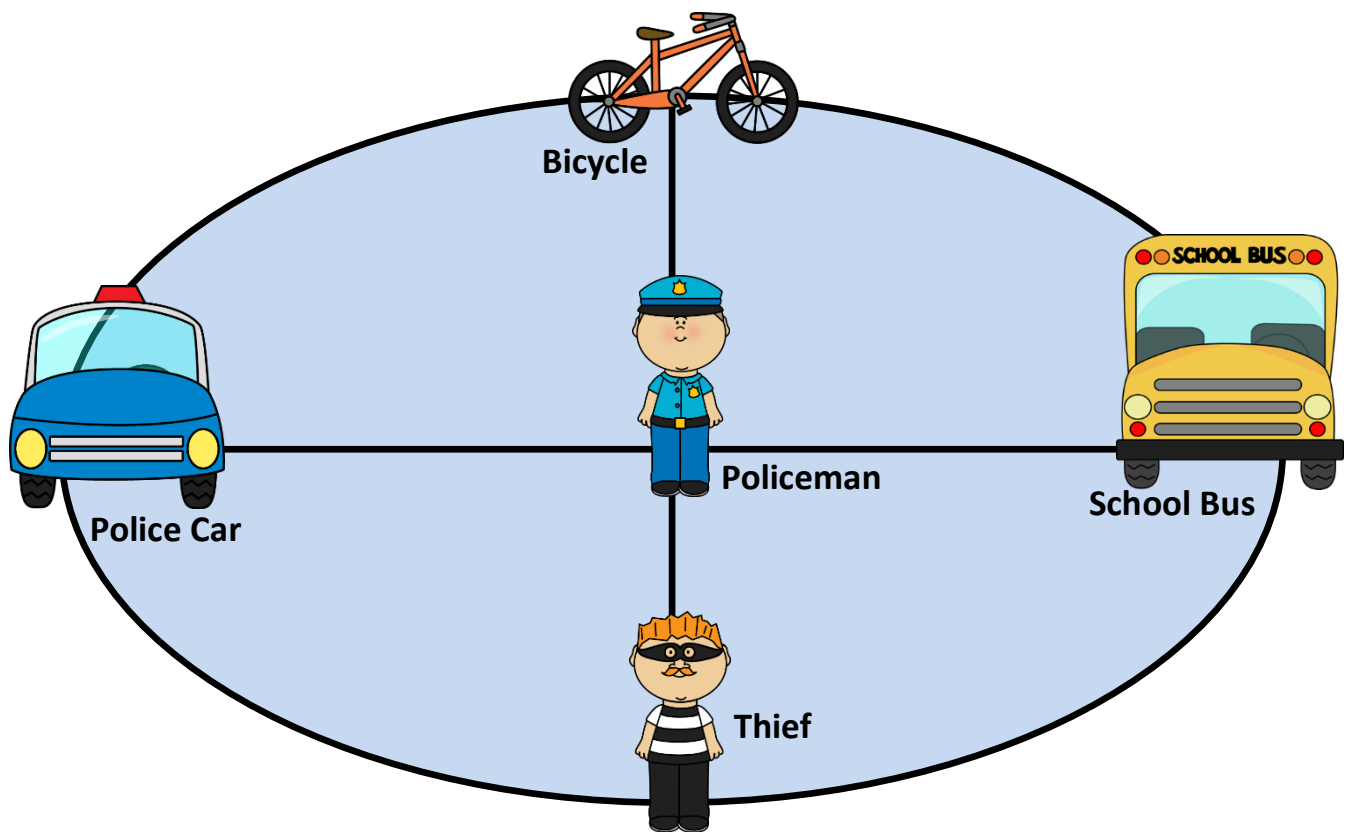
Where does Miriam face after these turns?



1. Face see-saw, turn anticlockwise 2 right angles.	roundabout
2. Face roundabout, turn clockwise 3 right angles.	
3. Face swings, turn anticlockwise 1 right angle.	
4. Face slide, turn anticlockwise 3 right angles.	
5. Face see-saw, turn clockwise 1 right angle.	
6. Face swings, turn clockwise 2 right angles.	
7. Face roundabout, turn anticlockwise 1 right angle.	
8. Face slide, turn clockwise 2 right angles.	
9. Face see-saw, turn anticlockwise 3 right angles.	
10. Face swings, turn anticlockwise 2 right angles.	

Right Angle Turns

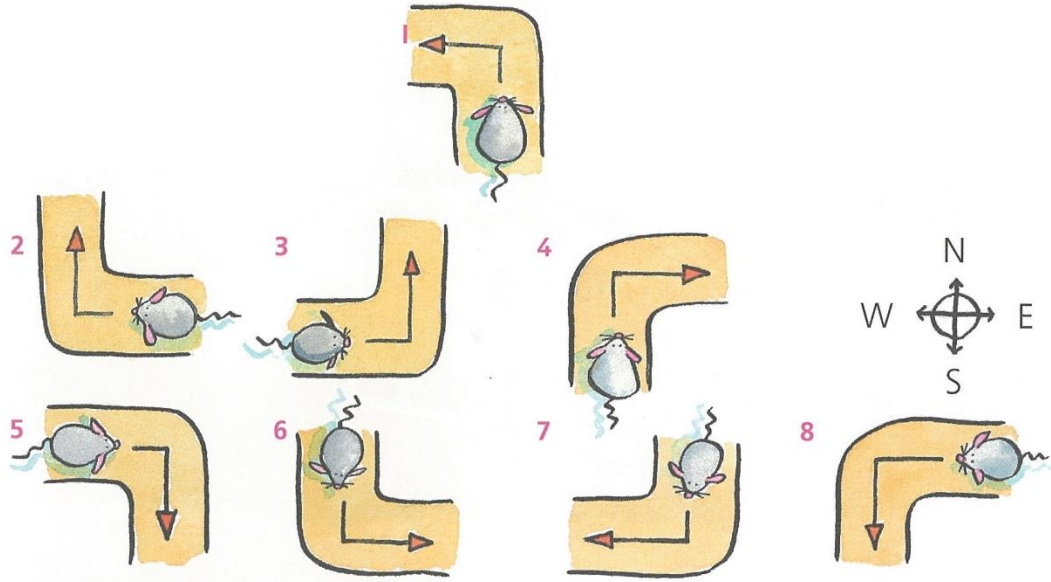
Where does the policeman face after these turns?



1.	Face thief, turn clockwise 2 right angles.	bicycle
2.	Face school bus, turn anticlockwise 3 right angles.	
3.	Face bicycle, turn clockwise 1 right angle.	
4.	Face police car, turn clockwise 3 right angles.	
5.	Face school bus, turn anticlockwise 1 right angle.	
6.	Face bicycle, turn anticlockwise 2 right angles.	
7.	Face thief, turn clockwise 1 right angle.	
8.	Face police car, turn anticlockwise 2 right angles.	
9.	Face thief, turn clockwise 3 right angles.	
10.	Face school bus, turn clockwise 2 right angles.	

Turning North, South, East or West

Write each turn and final direction.



1.	anticlockwise	west
2.		
3.		
4.		
5.		
6.		
7.		
8.		

Turning North, South, East or West

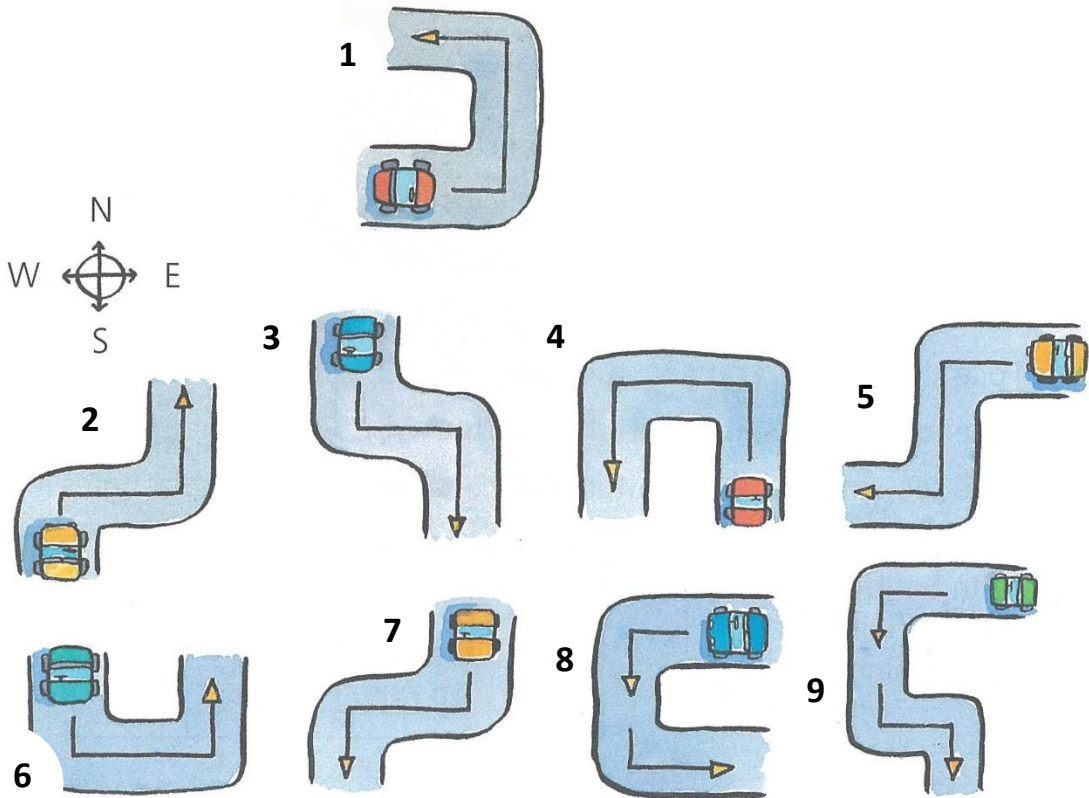
Write the direction before and after each turn.



1.	east to south
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	

Turning North, South, East or West

Write directions for the car to follow.



1. **East, anticlockwise, north,**
clockwise, west.

2.

3.

4.

5.

6.

7.

8.

9.

Turning North, South, East or West

Write the direction before and after each turn.

1
1 right angle

2
3 right angles

3
2 right angles

4
1 right angle

5
4 right angles

6
2 right angles

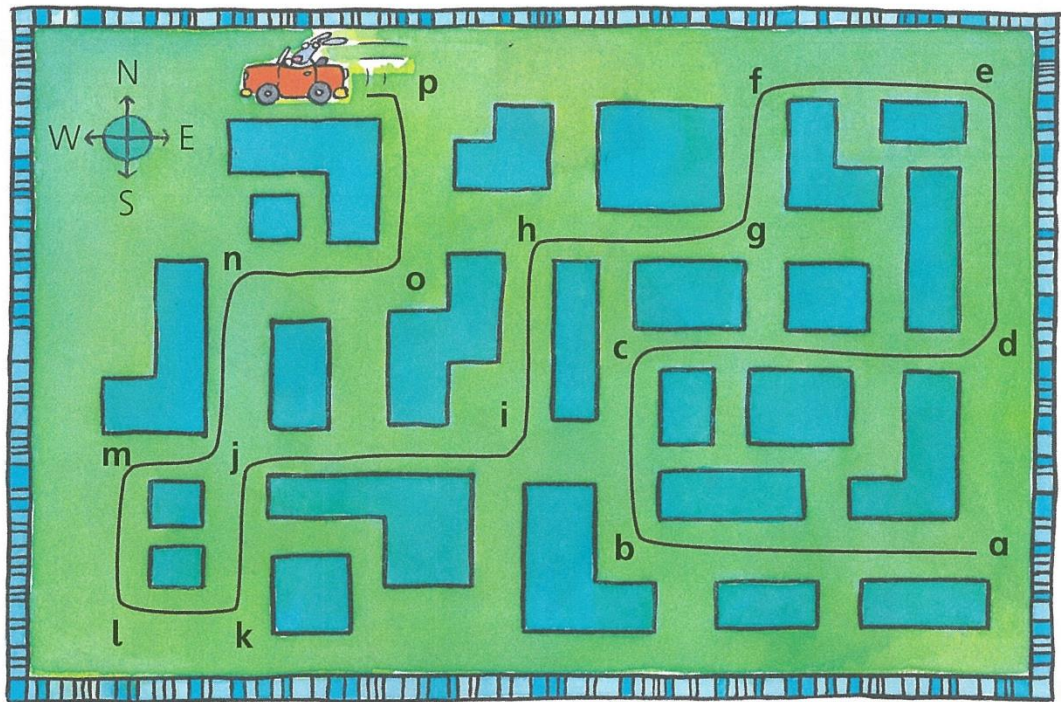
7
3 right angles

8
1 right angle

9
2 right angles

1.	south to east
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	

North, South, East, West

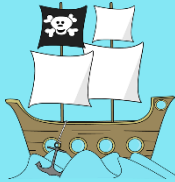

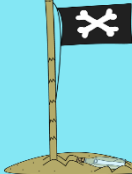
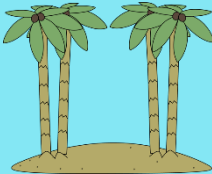
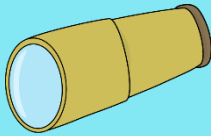












Write the direction from:

a to b	west
c to d	
e to f	
g to h	
l to j	
k to l	
m to j	
n to o	

b to c	
d to e	
f to g	
h to i	
j to k	
l to m	
j to n	
o to p	




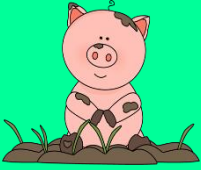

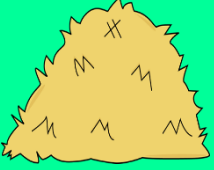


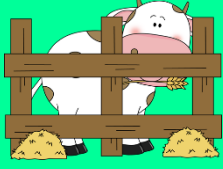

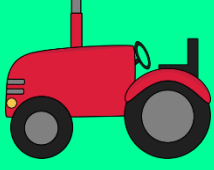




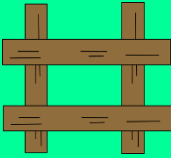

Direction

	 <p>Pirate Ship</p>			
	 <p>Pirate Sam</p>	 <p>Pirate Flag</p>		 <p>Palm Trees</p>
 <p>Telescope</p>			 <p>Treasure Map</p>	
 <p>Pirate Hat</p>		 <p>Pirate Sword</p>		 <p>Message in Bottle</p>
	 <p>Treasure Chest</p>		 <p>Captain Hook</p>	
 <p>Grandpa Pirate</p>			 <p>Pirate Jane</p>	
		 <p>Pirate Parrot</p>		 <p>Ship Anchor</p>

In which direction (north, south, east or west) is:

1.	the treasure chest from Pirate Sam?	South
2.	the ship anchor from Pirate Parrot?	
3.	Captain Hook from Pirate Jane?	
4.	the telescope from the treasure map?	
5.	the pirate flag from Pirate Sam?	
6.	the message in the bottle from the palm trees?	
7.	the treasure chest from Captain Hook?	
8.	the palm trees from Pirate Sam?	
9.	the pirate ship from the treasure chest?	
10.	Pirate Sam from the palm trees?	
11.	the pirate sword from the pirate flag?	
12.	the pirate hat from Grandpa Pirate?	
13.	the message in the bottle from the pirate hat?	
14.	Grandpa Pirate from Pirate Jane?	
15.	the treasure map from Pirate Jane?	
16.	the treasure map from the telescope?	
17.	the pirate sword from the message in the bottle?	
18.	the ship anchor from the palm trees?	
19.	Grandpa Pirate from the telescope?	
20.	the pirate sword from Pirate Parrot?	






Direction

 <p>Barn</p>		 <p>Hay Pitchfork</p>		 <p>Rabbit</p>
 <p>Pig</p>			 <p>Kittens</p>	 <p>Hay</p>
		 <p>Farmer Lilly</p>		
	 <p>Dog</p>		 <p>Cow</p>	 <p>Horse</p>
 <p>Tractor</p>		 <p>Hen</p>		 <p>Silo</p>
		 <p>Farmer James</p>		
 <p>Duckling</p>	 <p>Fence</p>		 <p>Owl</p>	

Are these statements TRUE or FALSE?

1.	The duckling is north of the tractor.	False
2.	Farmer James is south of farmer Lilly.	
3.	The dog is west of the horse.	
4.	The fence is south of the dog.	
5.	The cow is south of the owl.	
6.	The horse is north of the rabbit.	
7.	The silo is east of the hen.	
8.	The duckling is east of the owl.	
9.	The tractor is west of the silo.	
10.	The barn is west of the rabbit.	
11.	The kittens are west of the pig.	
12.	The barn is west of the cow.	
13.	The hay pitchfork is north of farmer Lilly.	
14.	Farmers Lilly and James are north of the hen.	
15.	The silo is south of the cow.	
16.	The hay is east of farmer Lilly.	
17.	The cow is south of the kittens.	
18.	The pig is west of the hay.	
19.	The hen is north of the hay pitchfork.	
20.	The owl is east of the fence.	

Direction

 <p>Gingerbread Man</p>	 <p>Tanya</p>	 <p>Santa's Dog</p>		 <p>Santa's Sleigh</p>
 <p>Christmas Gift</p>		 <p>Reindeer</p>	 <p>Sandy</p>	
	 <p>Santa's House</p>		 <p>Three Wise Men</p>	 <p>Elf Ted</p>
 <p>Elf Clara</p>		 <p>Santa Claus</p>	 <p>Peppermint Candy</p>	
 <p>Stocking</p>	 <p>Pete</p>		 <p>Snowman</p>	
	 <p>Crib</p>	 <p>Cookies and Milk</p>		 <p>Candy Cane</p>
 <p>Christmas Tree</p>		 <p>Shepherd</p>	 <p>Billy</p>	 <p>Toymakers</p>

1. From Santa Claus, which direction is:

the reindeer?	North
elf Clara?	
the peppermint candy?	
the cookies and milk?	

2. From Pete, which direction is:

the crib?	
the snowman?	
Santa's house?	
the stocking?	

3. From the three wise men, which direction is:










elf Ted?	
Sandy?	
Billy?	
Santa's house?	

4. Complete:

- a) Elf Ted must walk _____ to get the candy cane.
- b) Elf Clara must walk _____ to open the Christmas gift.
- c) Tanya must walk _____ to eat the gingerbread man.
- d) The toymakers must walk _____ to put the presents on Santa's sleigh.
- e) Billy must walk _____ to put his gift under the Christmas tree.

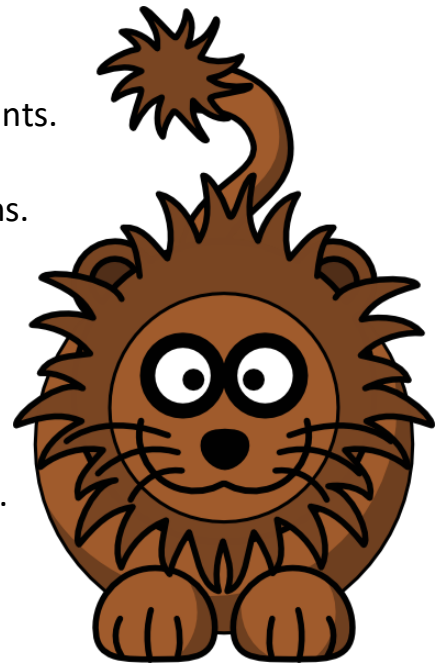
Direction

Can you help the zookeeper complete the map of the zoo? Can you help him place the missing animals in their proper places?

	 hippos				 zebras
		 monkeys			
					 penguins
				 bears	
 elephants		flamingos	 tigers		
				 Jordy	 giraffes

1. Write the names of the missing animals in their proper places by following the directions below.

- The flamingos are on the east of the tigers.
- The kangaroos are on the south of the elephants.
- The ostriches are on the north of the bears.
- The crocodiles are on the west of the penguins.
- The rhinos are on the east of the monkeys.
- The wolves are on the east of the bears.
- The hyenas are on the west of the tigers.
- The seals are on the north of the monkeys.
- The parrots are on the south of the zebras.
- The pandas are on the north of the elephants.
- The lions are on the west of the monkeys.
- The gorillas are on the west of the bears.

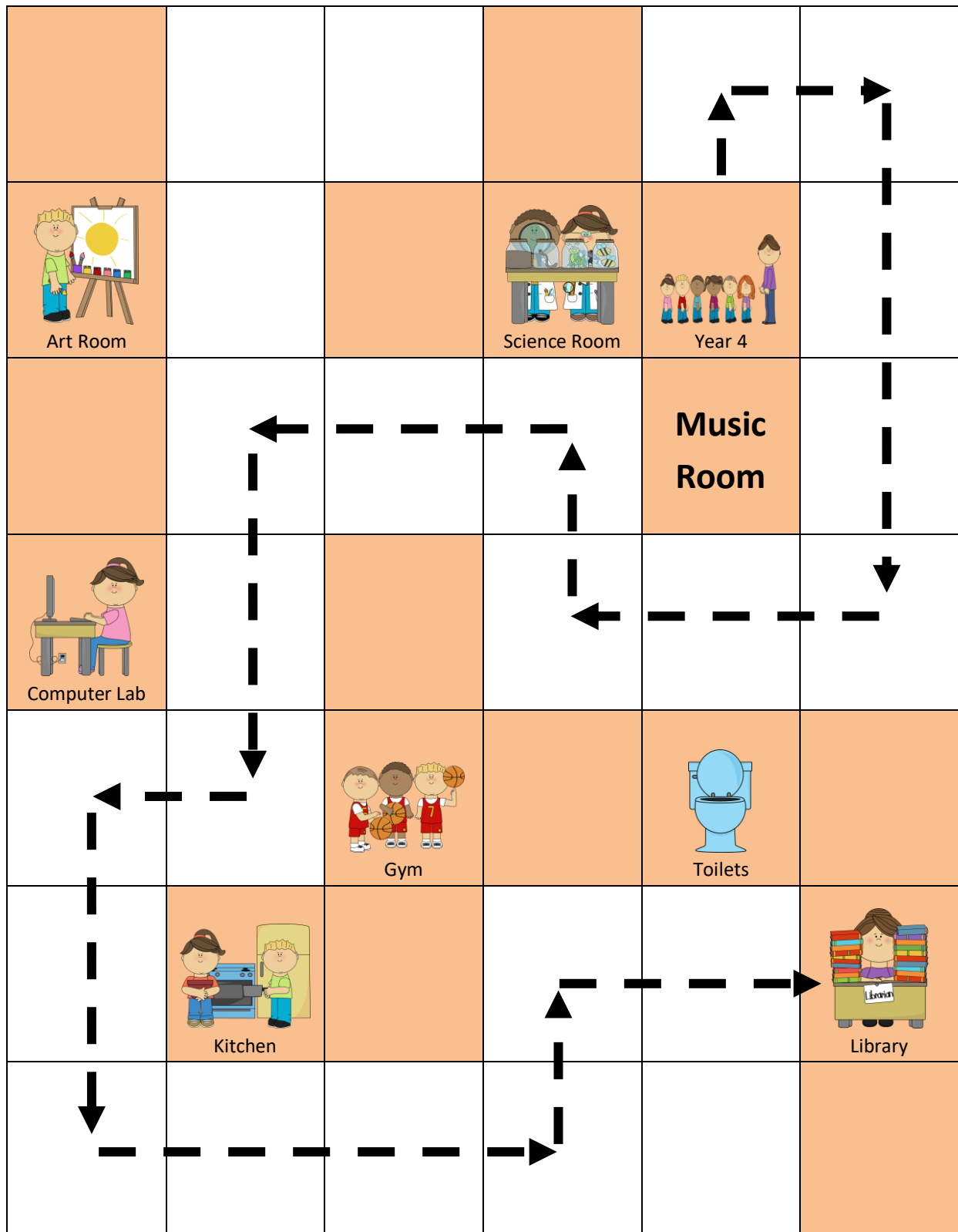


2. Jordy is at the zoo near the giraffes' cage. He would like to go to watch the zebras. He took the path marked with the arrows. Describe the path he took by completing the table below. The first one has been done for you as an example.

	Direction	Number of Squares
a.	West	4 squares
b.		
c.		
d.		
e.		
f.		
g.		

Direction

Can you help the headmaster of the Happy School complete the map of the school?



Write the names of the missing classes, offices and rooms in their proper places by following the directions below.

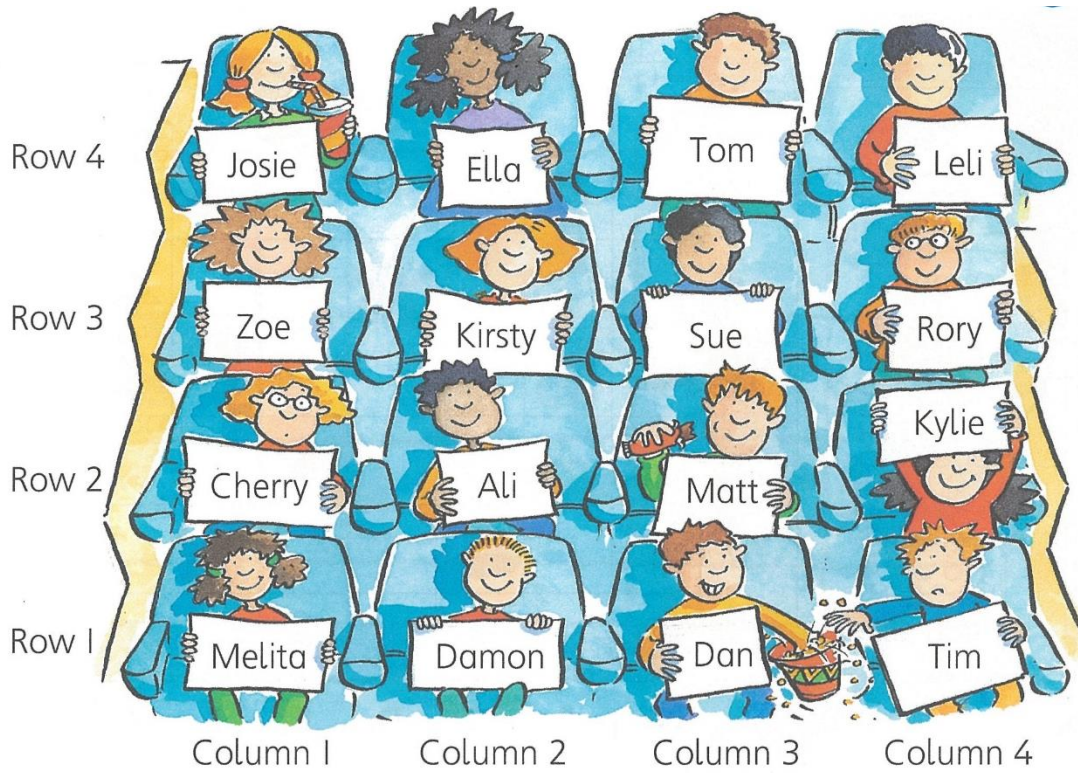
- The music room is south of the year 4 class.
- The year 3 class is west of the science room.
- The year 5 class is south of the art room
- The year 2 class is east of the computer lab.
- The Head's office is south of the library.
- The Kinder 1 class is east of the kitchen.
- The staff room is north of the science room.
- The year 6 class is north of the art room.
- The Kinder 2 class is west of the toilets.
- The year 1 class is north of the library.



Ms. Vella, the year 4 teacher, wants to take her class children to the library. She took the path marked with the arrows. Describe the path she took by completing the table below. The first one has been done for you as an example.

	Direction	Number of Squares
a.	North	1 square
b.		
c.		
d.		
e.		
f.		
g.		
h.		
i.		
j.		
k.		
l.		

Position



Where is each child sitting?

Sue	C3, R3
Damon	
Kylie	
Leli	
Ella	

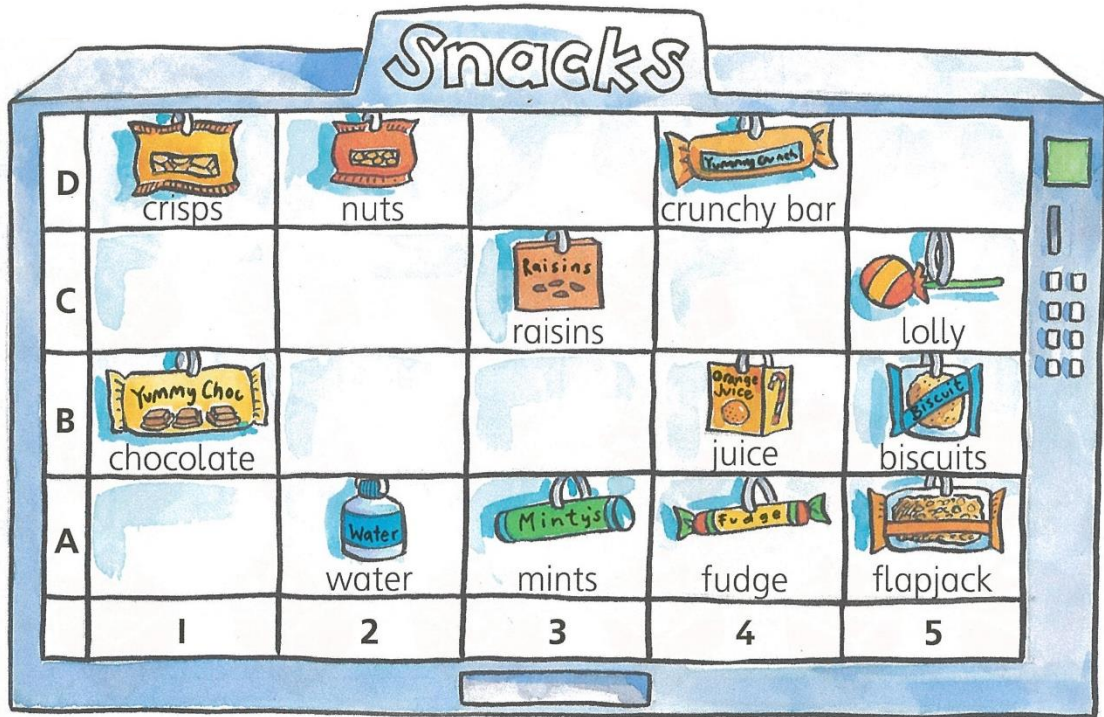
Ali	
Tim	
Zoe	
Cherry	
Rory	

Who is sitting in these seats?

C3, R2	Matt
C2, R3	
C1, R1	
C4, R3	
C1, R4	

C3, R1	
C3, R4	
C4, R2	
C2, R4	
C3, R3	

Position



Where are these snacks?

water	
juice	
nuts	

biscuits	
flapjack	
lolly	

Which snacks are in these positions?

1B	
3C	
3A	

4A	
1D	
4D	

Position

Colour the spaces in the grid as instructed below.

Row 6					
Row 5					
Row 4					
Row 3					
Row 2					
Row 1					
	Column 1	Column 2	Column 3	Column 4	Column 5

1. Column 4, Row 2 = YELLOW
2. Column 2, Row 5 = GREEN
3. Column 4, Row 5 = RED
4. Column 3, Row 2 = ORANGE
5. Column 2, Row 1 = BLACK
6. Column 5, Row 1 = PINK
7. Column 3, Row 6 = PURPLE
8. Column 1, Row 3 = GREY
9. Column 1, Row 4 = BLUE
10. Column 5, Row 3 = BROWN

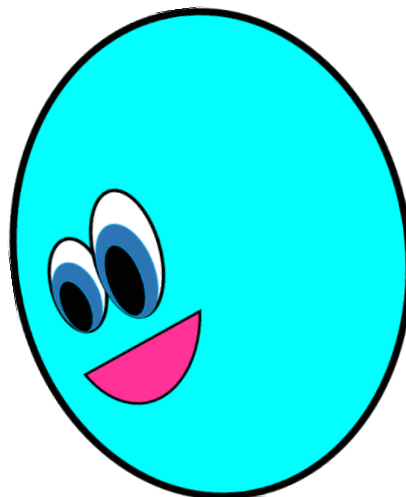


Position

Draw shapes in the grid as instructed below. Use a ruler to draw straight lines.















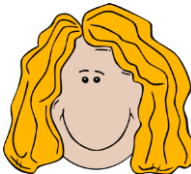
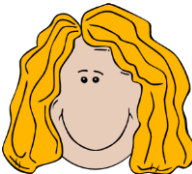



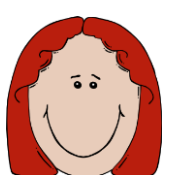





Row 6					
Row 5					
Row 4					
Row 3					
Row 2					
Row 1					
	Column 1	Column 2	Column 3	Column 4	Column 5

1. Column 1, Row 3 = SQUARE
2. Column 4, Row 6 = PENTAGON
3. Column 2, Row 4 = RECTANGLE
4. Column 3, Row 1 = TRIANGLE
5. Column 5, Row 2 = HEPTAGON
6. Column 2, Row 6 = CIRCLE
7. Column 5, Row 6 = HEXAGON
8. Column 1, Row 5 = OCTAGON



Position

The Year 4 children of the Happy School went to the cinema. Here is how they were seated during the movie.

6	 Sarah	 Matilda	 Fiona	 Rose	 Ms. Abela
5		 Dora	 Carla	 Tony	 Alvin
4	 Mr. Grech	 Paul	 Karl	 Saviour	
3	 Jane	 Laura	 Linda		 Mr. Xerri
2	 Kevin	 Roberta	 Maria	 Jordan	
1		 David	 Manuel	 Matthew	 Albert
	A	B	C	D	E

1. In which seat are they sitting?

Laura	
Carla	
David	
Fiona	
Kevin	

Paul	
Maria	
Linda	
Tony	
Matthew	

2. Who is sitting in these seats?

B2	
D6	
C4	
A6	
C1	

A3	
E1	
B5	
D2	
D4	

3. Where are the teachers sitting?

Mr. Xerri	
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Ms. Abela	
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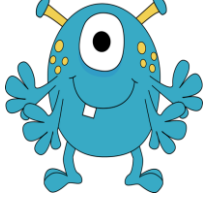
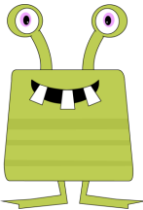


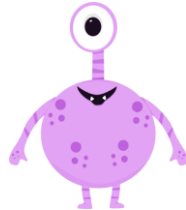

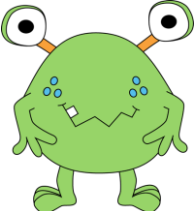

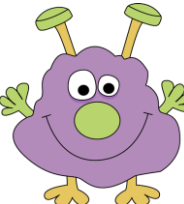

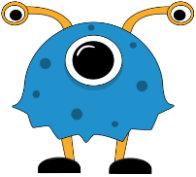


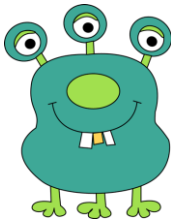




4. Which five seats are empty?

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5. Mr. Spiteri, the headmaster of the Happy School, arrived late for the movie. Everybody was already seated in his place and the movie had already started. He saw an empty seat and sat on it. The seat was marked E4. Draw Mr. Spiteri in the place where he sat.

Position

Even monsters go to school! They go to the Monsters Happy School. This is how the monsters in Year 4 are seated in class.

5		 Ozzy	 Tilda	 Penny	 Zane
4	 Bruno	 Angelina	 Willy	 Bert	 Hilda
3	 Mike	 Pinky	 Fluffy	 Otto	
2	 Tina	 Star	 Boots		 Toto
1	 Dave		 Funny	 Axel	 Olive
	A	B	C	D	E

1. In which seats are these monsters sitting?

Star	
Bert	
Dave	
Tilda	
Pinky	

Mike	
Axel	
Penny	
Hilda	
Toto	

2. Which monsters are sitting in these seats?

B4	
A2	
D3	
C1	
E5	

C3	
E1	
B5	
A4	
C2	

3. In the Year 4 Monsters' Class there are two LSA's as well. Miss Scary sits in E3 and Miss Clumsy sits in A5. Write their names where they are supposed to sit in class.

4. Two monster students are absent today because they are sick. Sneezzy sits in E1 and Spotty sits in D2. Write their names where they are supposed to sit in class.

5. Who is sitting in the front row?



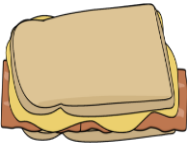


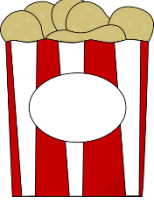


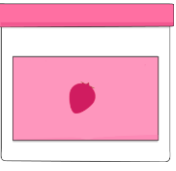

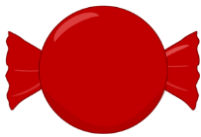



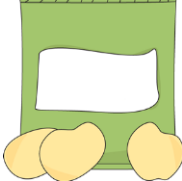







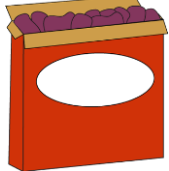
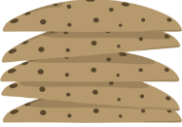

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6. Who is sitting in the back row?

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Position

From a vending machine we can buy various things like crisps, soft drinks, chocolate bars, sandwiches, sweets, toys, etc. Just make sure you push the right buttons!

E	 milk	 cola	 sandwich	 orange juice	 cotton candy
D	 peanuts	 pretzel	 cupcake	 yoghurt	 buns
C	 toffees	 doughnut	 biscuits	 chocolate bar	 crisps
B	 cereal	 popcorn	 lollipop	 lemonade	 croissant
A	 chewing gum	 gumdrops	 jelly babies	 cookies	 ice tea
	1	2	3	4	5

1. Which buttons should I push if I want to buy the:

gumdrops?	
peanuts?	
cereal?	
milk?	
lollipop?	

doughnut?	
cookies?	
yoghurt?	
crisps?	
sandwich?	

2. What will I get if I push the buttons:

B2?	
C4?	
A1?	
D3?	
E5?	

C1?	
E2?	
B5?	
D2?	
A3?	

3. Four of the items in the vending machine have finished. There spaces are empty. Which are they? Which are their positions?

ITEM				
POSITION				

4. Which items are in the middle shelf?

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Position

Write capital letters in the grid as instructed below.

Row 6					
Row 5					
Row 4					
Row 3					
Row 2					
Row 1					
	Column 1	Column 2	Column 3	Column 4	Column 5

1. Column 1, Row 4 = Letter E
2. Column 4, Row 1 = Letter P
3. Column 2, Row 5 = Letter R
4. Column 3, Row 2 = Letter T
5. Column 5, Row 3 = Letter G
6. Column 2, Row 1 = Letter C
7. Column 5, Row 1 = Letter Y

