



Year 9 HOME LEARNING

Subject: Shapes

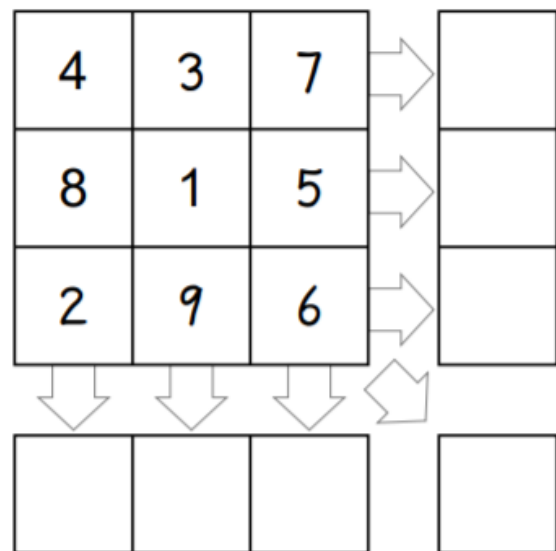
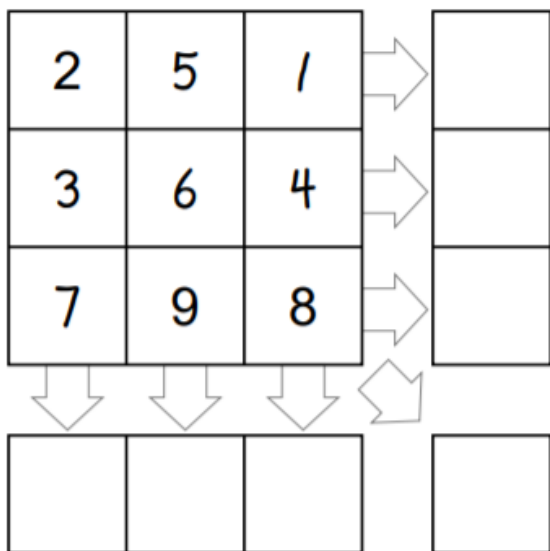
Time to complete: 50 minutes

Learning Objective: To recognise and name 2D and 3D shapes, create patterns and solve simple problems.

The answers to the questions are included at the bottom. We would like the students to self-mark their work. This is a very valuable learning tool as it gives pupils immediate feedback and encourages independence and ownership over their learning. Please send your work in when you have marked it, showing any corrections that you have made.

Mrs Nowacka

Warm up:



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

You can use 100 square grid to help you with counting.

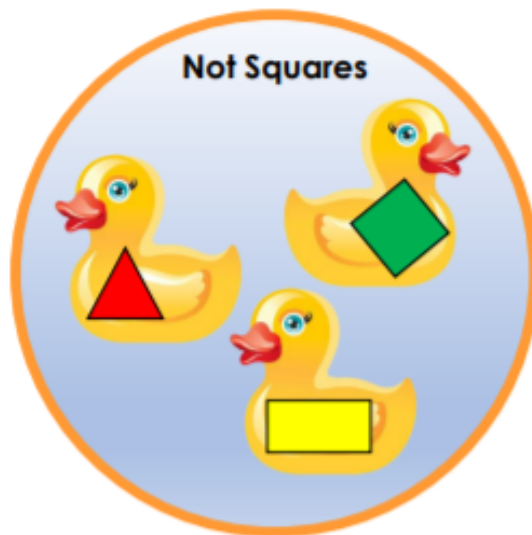
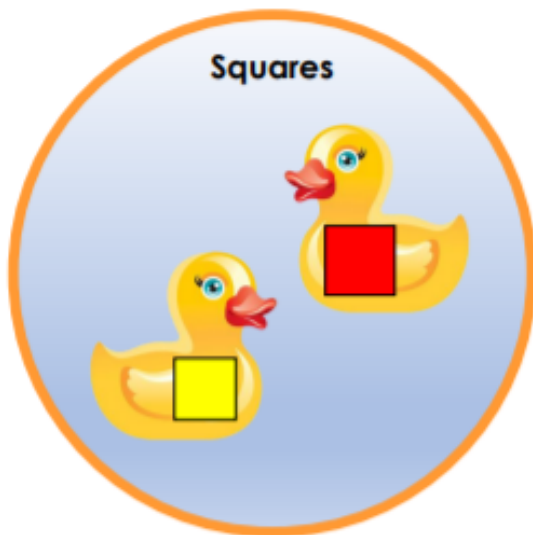
Task

Solve the following problems using what you know about shapes and patterns.

The children at Lime Street School are enjoying the school fayre. There are lots of fun rides, games and stalls.



1. There is a hook-a-duck game. The children can't wait to have a go. There are 2 pools. The children must hook the ducks and then put them into the correct pool.



Ahmed has already had a go. Has he won the game? _____ Explain how you know.

Ahmed tries again and this time he wins a chocolate bar.

2. Dan and Rana are playing a bowling game.
The shapes have been sorted because different shapes score different points.



But Dan spots something wrong! Explain what is wrong?

3. Here is the score board:

pyramids	1 point
cones	2 points



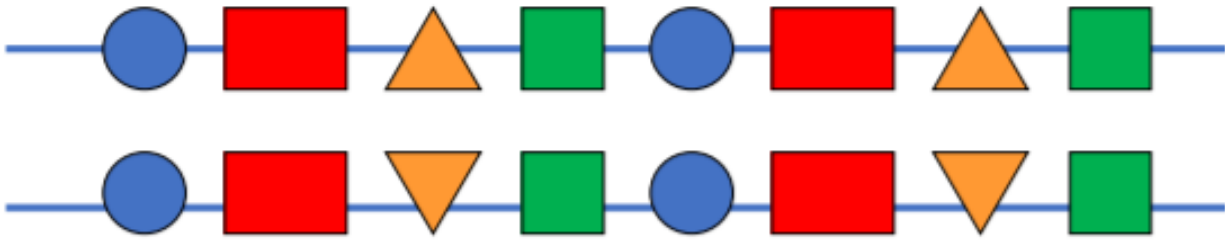
Rana knocks over 3 pyramids and a cone. What is her score?



Dan knocks over 2 pyramids and 2 cones. What is his score?

Who won the game?

4. Atifa and Sean are making bracelets at the craft stall. They have both created a pattern with their beads.



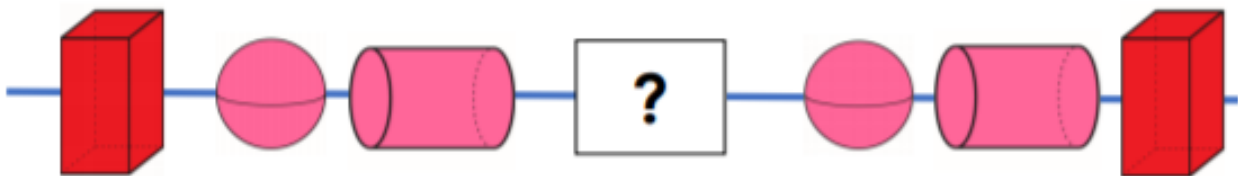
Our patterns are the same.

Our patterns are different.



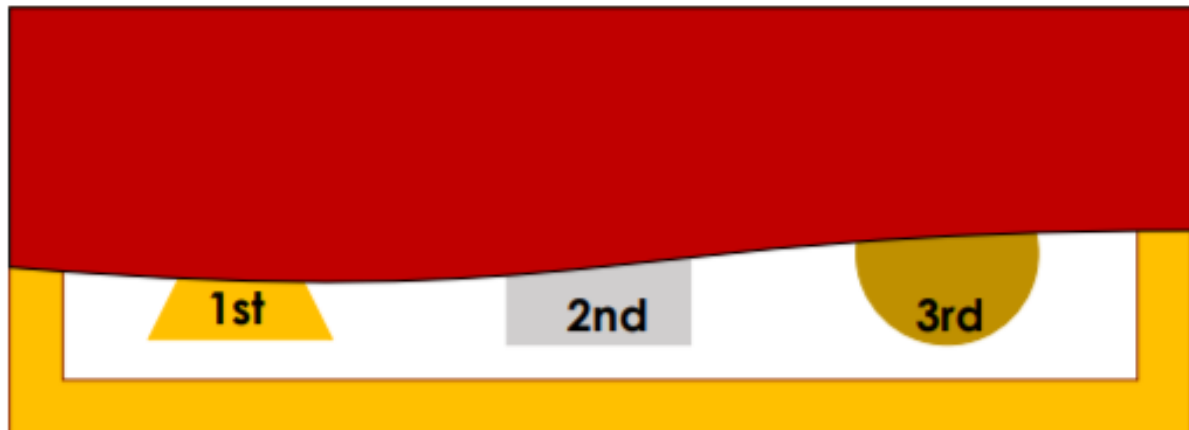
Who do you agree with? Explain why.

5. Atifa makes a necklace to go with her bracelet. She creates a pattern with her beads but gets confused. Tick the shape that is missing?



It is time for the running race.

The medals are covered up to keep them shiny and clean.



The children are trying to guess the shape of each medal.

6. What shape could each medal be?

Tick the shape and explain your thinking.

<u>1st place</u>	square	
	circle	
	triangle	

A large speech bubble with a tail pointing to the table for the 1st place medal.

<u>2nd place</u>	square	
	rectangle	
	triangle	

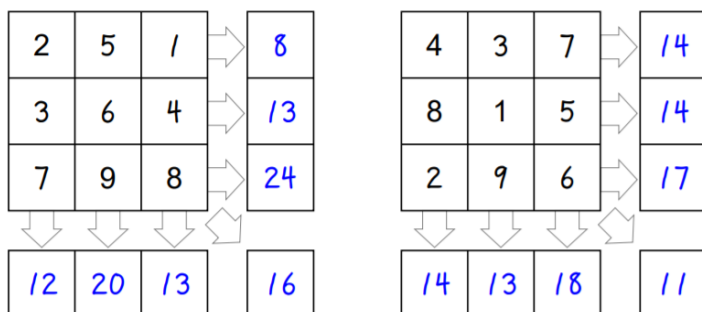
A large speech bubble with a tail pointing to the table for the 2nd place medal.

<u>3rd place</u>	rectangle	
	circle	
	triangle	

A large speech bubble with a tail pointing to the table for the 3rd place medal.

Answers:

Warm up:



Task:

1. No. There is a square in the wrong group.
2. There is a pyramid with the cones.
3. Rana: 5, Dan: 6. Dan won the game.
4. Atifa is correct because the triangles are a different way round.
5. Cuboid ticked.
6. 1st place: triangle.
Various answers, for example: It looks like the 2 sides will meet to make a shape with 3 sides.
2nd place: square and/or rectangle
Various answers, for example: It cannot have 3 sides so is not a triangle. It could have 4 sides the same length or it could have 2 longer sides.
3rd place: circle
Various answers, for example: It has a curved edge.

Save your work:

If you are using a computer, open a blank document to do your work (you can use Word or Publisher). Don't forget to SAVE it with your name, the lesson you are doing and the date.

For example: T.Smith Maths 8 April

If you would like us to see or mark your work please email it or send a photo of your completed work to:

Mrs Nowacka: dnowacka@glebe.bromley.sch.uk

Thank you