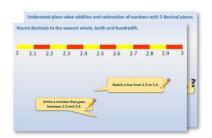
Week 9, Day 4

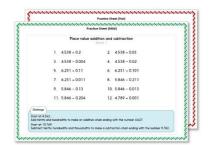
Block graphs

Each day covers one maths topic. It should take you about 1 hour or just a little more.

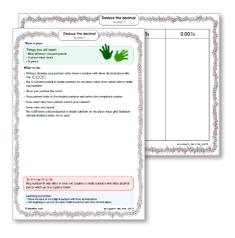
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

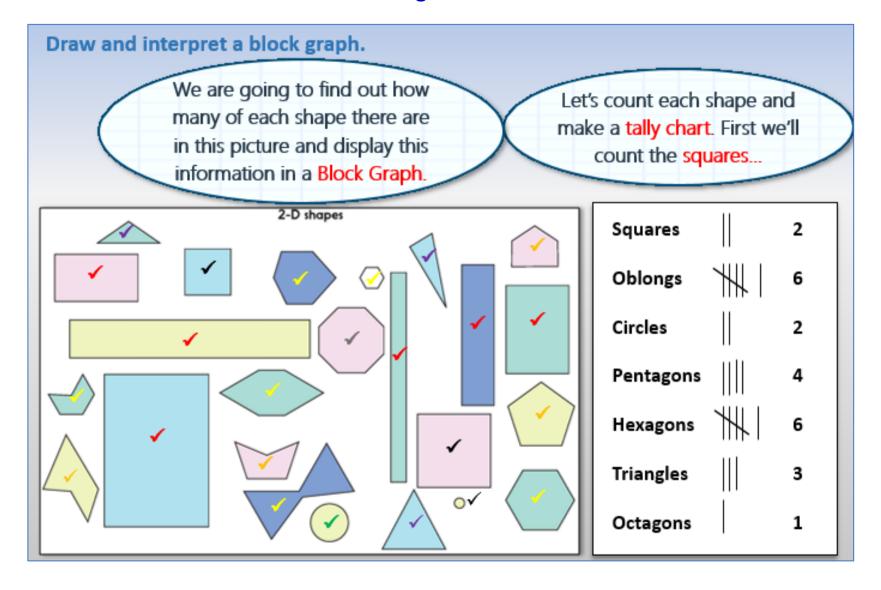


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

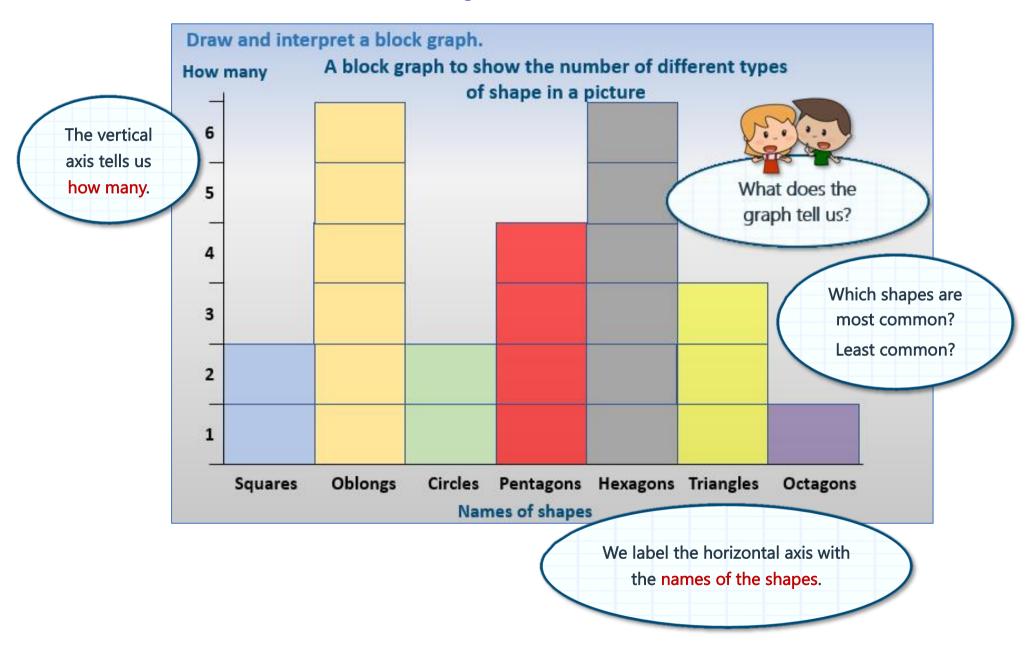


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

Learning Reminders



Learning Reminders



Practice Sheet Mild Draw a block graph

Use the following information to create a block graph. Remember to include axis, labels and a title.



Button shape	Number of buttons	
Circle		
Square	HH1	
Rectangle	HH 1111	
Pentagon	HH	
Hexagon	H++ H++ 1	
Octagon	H+111	

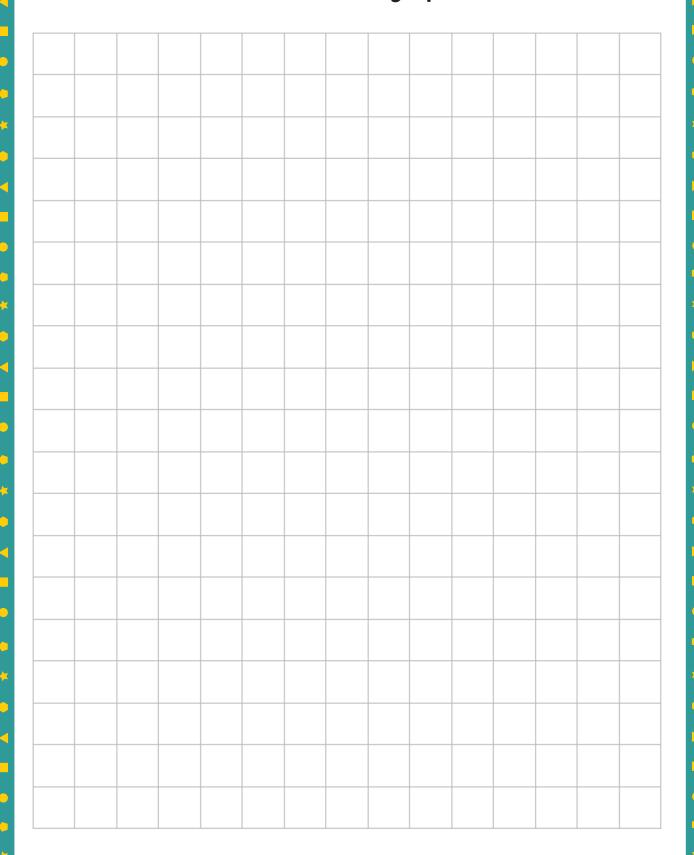




Challenge

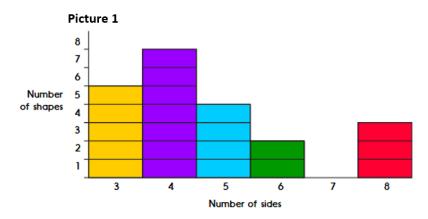
Can you use the graph to make up and answer 3 questions about the shapes?

Practice Sheet Mild Draw a block graph

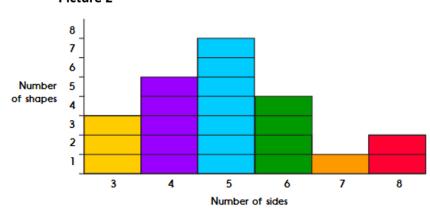


Practice Sheet Hot Shape block graphs

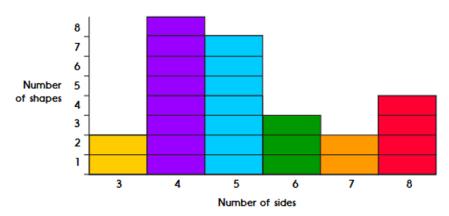
These block graphs were drawn about three different shape pictures



Picture 2



Picture 3

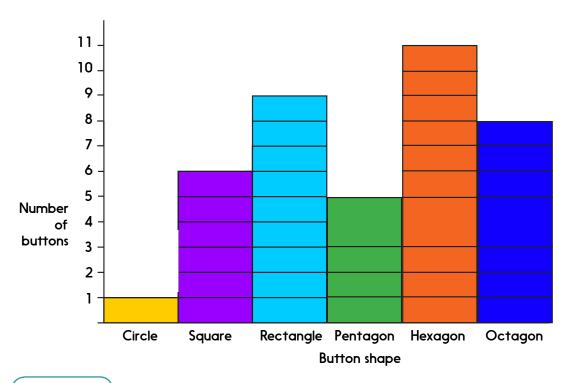


Can you work out which picture each clue is about...?

- 1. This picture has 5 triangles.
- 2. This picture has one more hexagon than triangles.
- 3. This picture has twice as many hexagons as octagons.
- 4. This picture has more pentagons than any other shape.
- 5. This picture has twice as many octagons as triangles.
- 6. This picture has twice as many pentagons as hexagons.

Practice Sheets Answers

Draw a block graph (mild)



Challenge

Questions could include:

Which shape had the least buttons? circle

Which shape had the most buttons? rectangle and hexagon

Were there more pentagon-shaped buttons than square-shaped buttons? no more squares

Shape block graphs (hot)

- 1. This picture has 5 triangles. Picture 1.
- 2. This picture has one more hexagon than triangles. Picture 3.
- 3. This picture has twice as many hexagons as octagons. Picture 2.
- 4. This picture has more pentagons than any other shape. Picture 2.
- 5. This picture has twice as many octagons as triangles. Picture 3.
- 6. This picture has twice as many pentagons as hexagons. Picture 1.

A Bit Stuck? My family

- Write the first names of five people in your family in the grey spaces on the horizontal axis of the graph.
- Count the number of letters in each name and write it by the side.
- Colour in a block for each letter to produce a block graph to show the length of the names.

12			
11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
	э		
	nam.		
	Your name		

- 1. Who has the longest name?
- 2. Who has the shortest name?
- 3. What is the difference between the longest and shortest name?

Investigation Sweeties



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You will need:

- a tube of Smarties (or other pack of sweets that has different colours)
- two bowls
- coloured pencils
- Sweeties graph

What to do:

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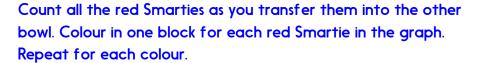
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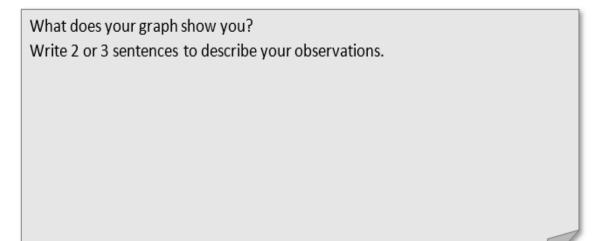
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- 1. Wash and dry your hands.
- 2. Tip the Smarties into a bowl.
- 3. **Just by looking**, which colour do you think is most common?
- 4. Which colour do you think is least common?





Were you correct about the most and least common colours?

Were there any surprises?

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 $-+? = x c_{m^3} \frac{1}{2} \div \frac{1}{2} \frac{1}{3} > m^2 + \% < \frac{5}{6} - c_{m^2} + \frac{1}{2} \frac{1}{3}$

