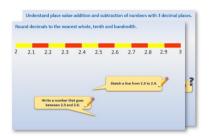
#### Week 8, Day 5

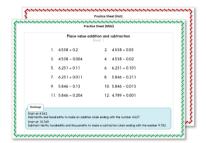
#### Use a Carroll diagram to sort 2-D shapes

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.

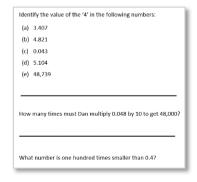


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

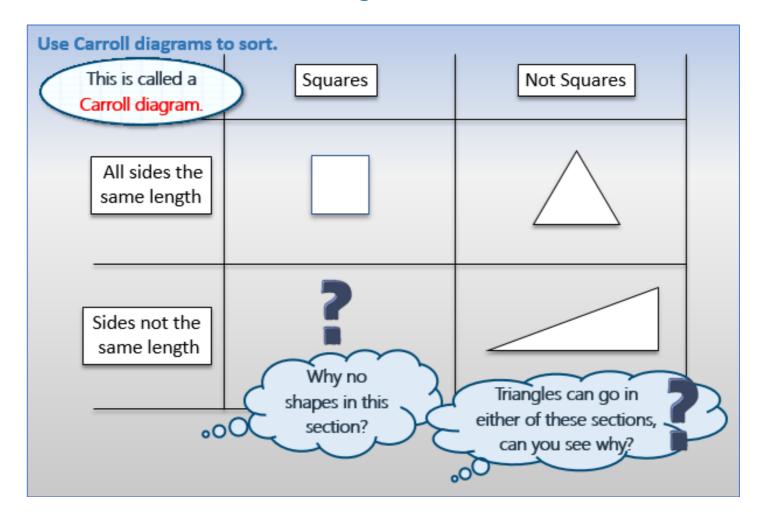


 Have I mastered the topic? A few questions to Check your understanding.

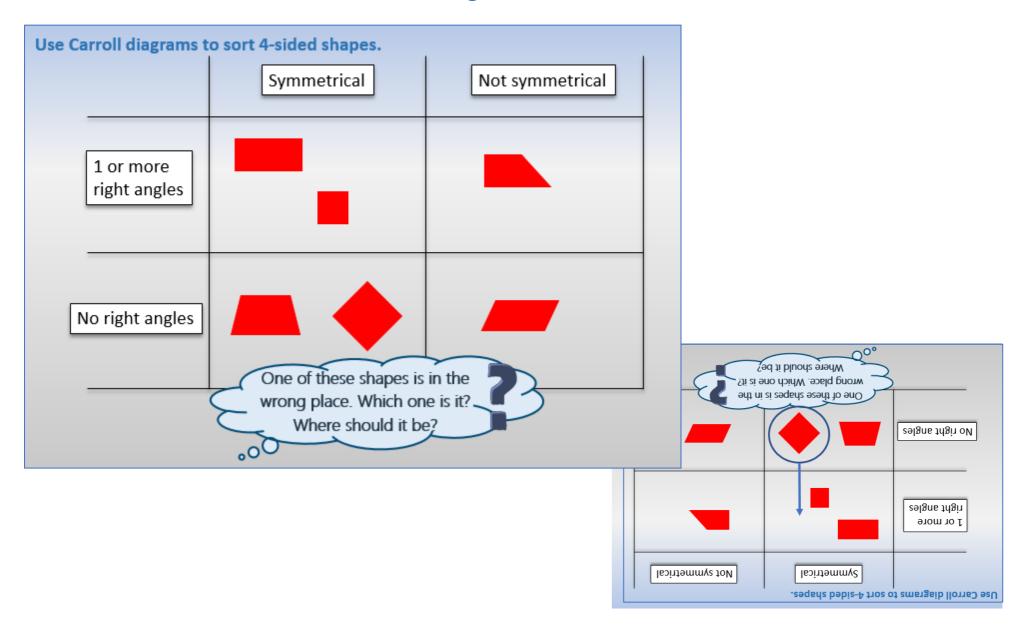
Fold the page to hide the answers!



#### **Learning Reminders**



#### **Learning Reminders**

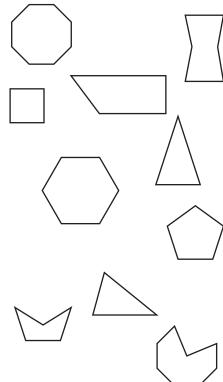


### Practice Sheet Mild

#### Sorting shapes on a Carroll diagram

Sort the shapes into the Carroll diagram:

	Fewer than 5 sides	5 or more sides	
All sides equal length			
Sides not equal lengths			



#### Challenge

Suggest two more different ways to sort the shapes.

Create another Carroll diagram to sort the shapes using these properties.

#### **Practice Sheet Hot**

#### Sorting shapes on a Carroll diagram

Sort the shapes into the Carroll diagram:

	Fewer than 5 sides	5 or more sides	
Symmetrical			
Not symmetrical			

#### Challenge

Suggest two more different ways to sort the shapes.

Create another Carroll diagram to sort the shapes using these properties.

#### **Practice Sheet Answers**

#### Sorting shapes on a Carroll diagram (Mild)

	Fewer than 5 sides	5 or more sides
All sides equal length		
Sides not equal lengths		

#### Sorting shapes on a Carroll diagram (Hot)

	Fewer than 5 sides	5 or more sides
Symmetrical		
Not symmetrical		

# A Bit stuck? Shape challenge

#### What to do:

• Your challenge is to draw four 2-D shapes in each column...

Shapes with at least one curved side	Shapes with no curved sides

Now try this one.

Shapes with 1, 2, or 3 sides	Shapes with more than 3 sides

## **Check your understanding:**Questions

Sort the names of your friends and family into this Carroll diagram. Make sure you have at least two in each category.

	More than 5 letters	5 or fewer letters
Starts with a vowel		
Starts with a consonant		

Draw a Venn diagram with two overlapping sets.

Label one set more than 4 sides and label the other set has at least one right angle.

Draw at least two shapes in each space on your diagram, including **outside** both sets.

Answers on the next page

### **Check your understanding:**

**Answers** 

Sort the names of your friends and family into this Carroll diagram.

Make sure you have at least two in each category.

Some examples are below.

	More than 5 letters	5 or fewer letters
Starts with a vowel	Amelia	Elvis
	Ingrid	Amy
Starts with a	Samira	Harry
consonant	Sinead	Kofi

Draw a Venn diagram with two overlapping sets.

Label one set more than 4 sides and label the other set has at least one right angle.

Draw at least two shapes in each space on your diagram, including **outside** both sets.

Check children's drawings and ask them to explain their placements of shapes. Some children find it difficult to 'juggle' 2 different attributes, particularly a negative one. A square or right-angled triangle, for example, would be included in the set that has at least one right angle but not in the set with more than 4 sides. Shapes outside both sets have 3 or 4 sides and no right angles – e.g. scalene triangles or kites.