

## Year 3 – Maths - WC 22.06.20 – Catshill Home Learning

Hello Year 3,

We are finishing off our Geometry topic this week. Here are some suggested activities to try at home.

### Revise Shapes

Revise what you know about shapes so far using this online teacher led video.

<https://classroom.thenational.academy/lessons/to-revise-shapes/>

Problem solving activities by I See Maths:



### 4 Triangles Challenge

Cut out the triangles. How many different shapes can you make using 4 triangles at a time. Challenge - Can you name any of the shapes you have made?

### Guess the Shape

Play with a partner. Choose a shape but don't tell anyone which one you have chosen. Your partner has to guess your shape by asking yes/no questions.

For example...

Does it have 3 sides?

Does it have a right angle?

Does it have two lines of symmetry?

### Matchstick Makers

Using straws, strips of paper or by drawing lines, can you solve the problems?

### Odd One Out

Answer the questions using your knowledge of properties of shapes.

We would love to see how you solve each problem. You can email the school office (remember to include your name and class) to share any of your work with us.

Other useful website links

<https://www.bbc.co.uk/bitesize/subjects/z826n39>

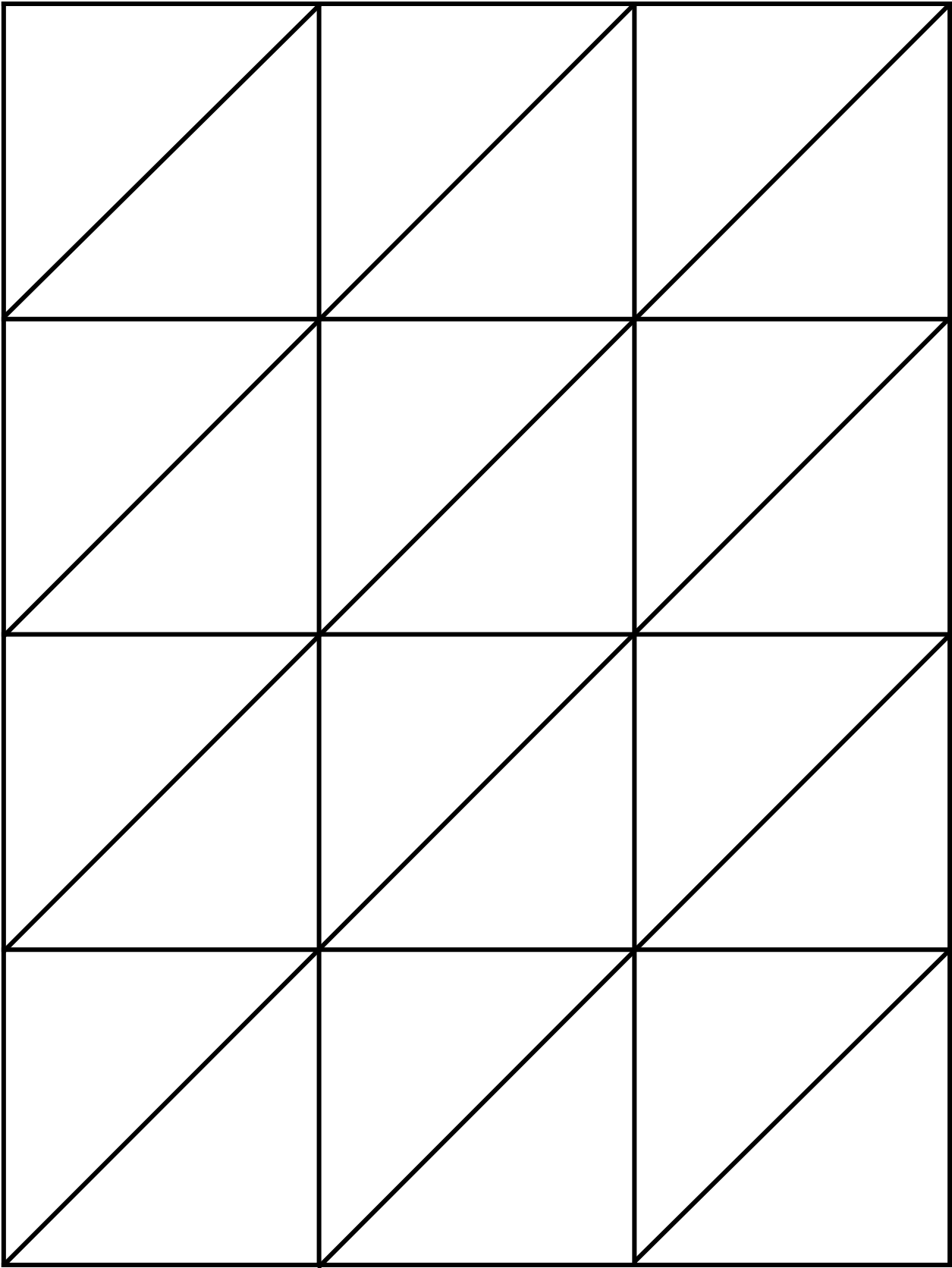
<https://trockstars.com/>

We miss you all. Take care and stay safe!

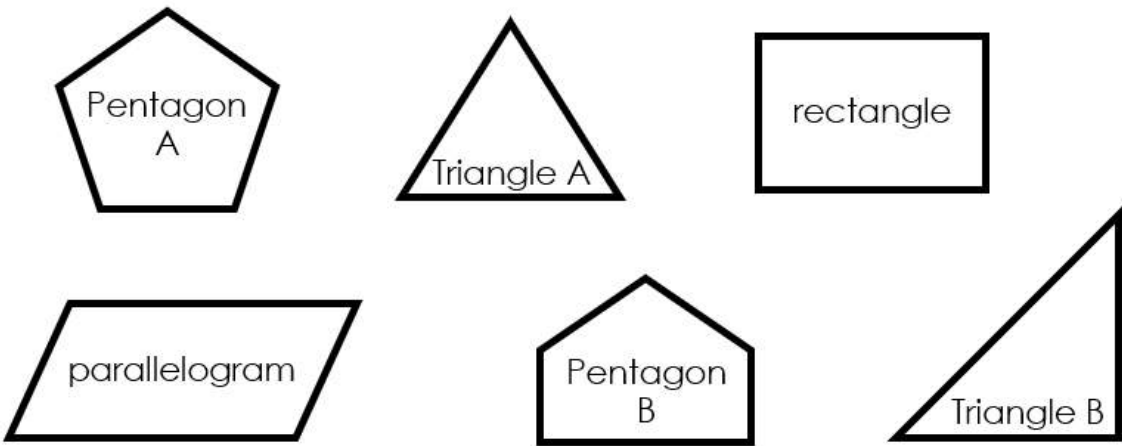
Miss Moody and Mrs Braiden-Smith ☺



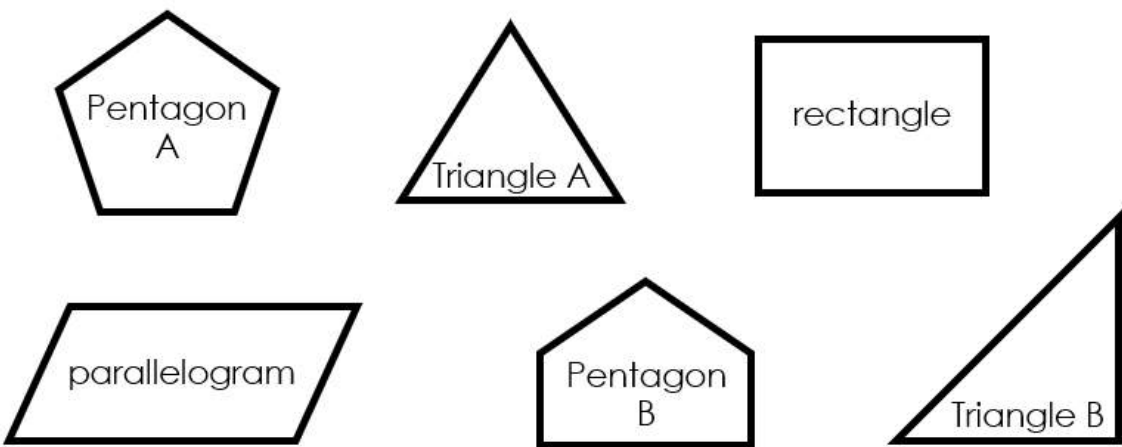
# Triangles



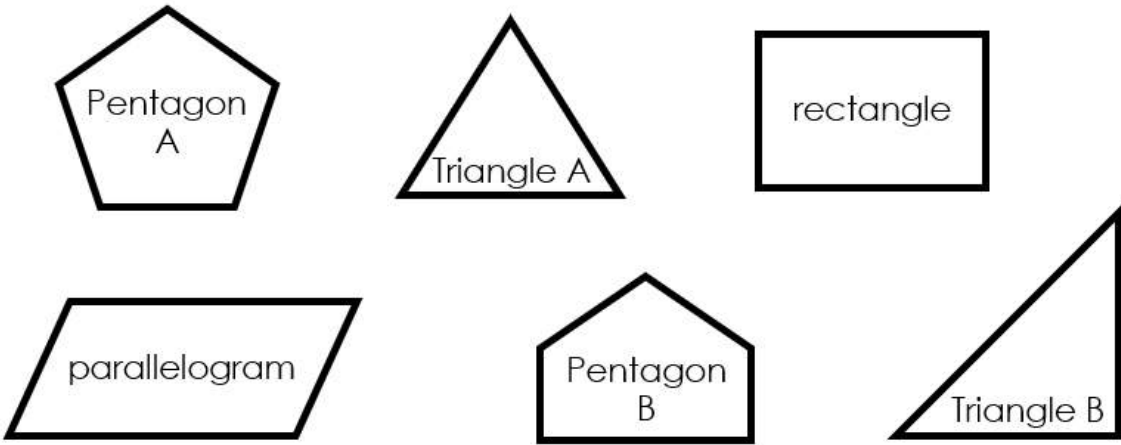
# Shapes



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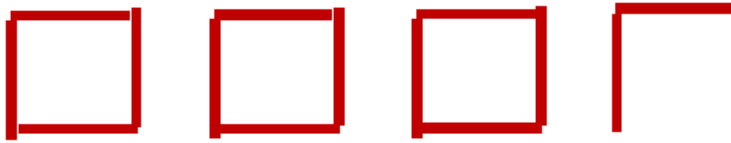


# Shapes



## Task A

There are  squares and  left over.

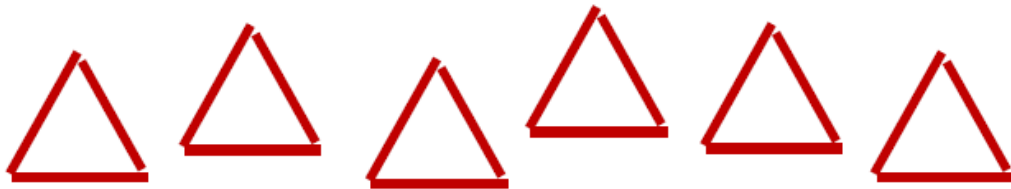


**Rearrange the same number of matchsticks.**

There are  triangles and  left over.

There are  \_\_\_\_\_ and  left over.

There are  triangles and  left over.



**Rearrange the same number of matchsticks.**

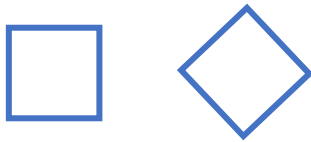
There are  squares and  left over.

There are  \_\_\_\_\_ and  left over.

# Task A

For each pair of shapes, **what is the same and what it different?**

Pair of shapes:



Pair of shapes:



Think of a reason why **each shape** could be the **odd one out**:



**Extension:** design an odd one out question. Explain why **different shapes could be the odd one out**.

# Task B

For each pair of shapes, **what is the same and what it different?**

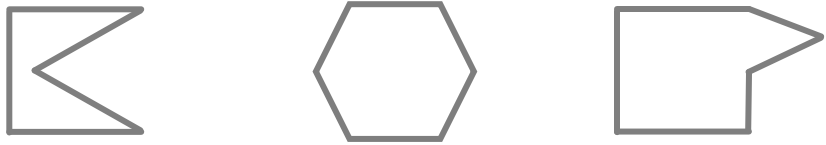
Pair of shapes:



Pair of shapes:



Think of a reason why **each shape** could be the **odd one out**:

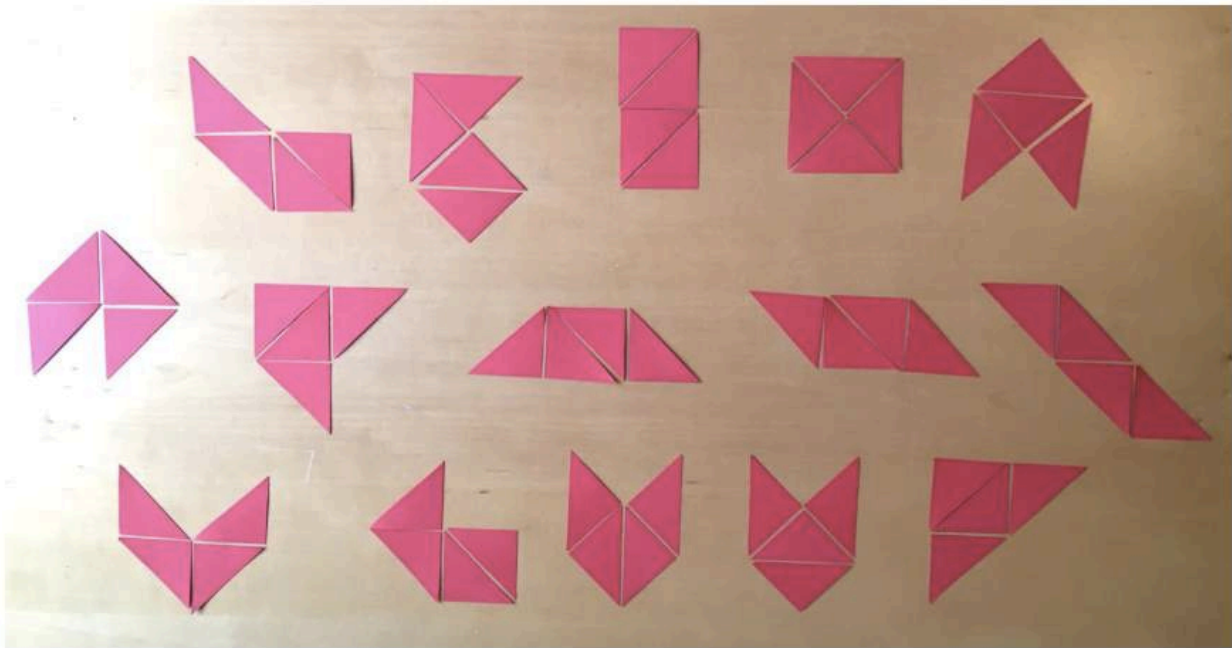


**Extension:** design an odd one out question using 3 shapes where **each shape could be the odd one out**.

**Possible answers are on the next page.**

## **Answers**

### **Triangles Challenge**



### **Matchstick Makers**

## **Answers**

**Task A:** 4 triangles and 2 left over. 2 pentagons and 4 left over.  
4 squares and 2 left over. 3 hexagons and 0 left over.

### **Odd One Out**

#### **Example Answers:**

**Task A:** Blue shapes: the same in that both shapes are squares; different in the way the square is positioned. Green shapes: the same in that two pairs of equal length sides; different in that they have different angles.

The triangle has 3 sides. The rectangle has all the same angles. The trapezium (right) has an obtuse angle and does not have a line of symmetry.

**Task B:** Red shapes: both pentagons. Different in that one shape has the same length sides and same size angles. Orange shapes: the same in that both shapes have two sides the same length. Different as one shape has a right angle.

First shape is a pentagon. The second shape is a regular shape (all sides and angles equal). The third shape does not have any lines of symmetry.