## **Properties of shapes**

HERE'S THE MATHS	
Triangles have 3 straight sides.	
Pentagons have 5 straight sides.	
Hexagons have 6 straight sides.	
Octagons have 8 straight sides.	$\square$

The sides in a shape do not all have to be the same length.

## ACTIVITY

#### What to do

- Draw and then cut out a range of different shapes with 3, 5, 6 and 8 sides.
- Challenge your child to sort the shapes into four groups: triangles, pentagons, hexagons and octagons. Help them to write a label for each group.

#### Variations

• A timer could be used to create an extra challenge. Each time your child completes the task, challenge them to beat their previous best time.

You will need:

• ruler

scissors

• pencil and paper

• timer (optional)

- Ask your child to find all of one shape triangles, pentagons, hexagons or octagons.
- Ask your child to make their own shapes to add to each group.

## QUESTIONS TO ASK What is that shape called? How do you know? How many sides/vertices does a triangle/pentagon/ hexagon/octagon have?







Date: \_\_\_\_\_

Name: \_\_\_\_\_

### **MATH\$ TOPIC\$**

These are the maths topics your child will be working on during the next three weeks:

- Number and place value
- Addition and subtraction
- · Properties of shapes

### **KEY MATHEMATICAL IDEA\$**

During these three weeks your child will be learning to:

- compare numbers up to 50 and use the greater than (>) and less than (<) signs
- recall and use addition and subtraction facts up to 20
- recognise and name 2-D shapes: triangle, pentagon, hexagon and octagon.

#### **TIP\$ FOR GOOD HOMEWORK HABIT\$**

Plan a homework timetable and agree a time when your child will do their homework.

# Number and place value

## HERE'S THE MATHS

< means 'less than'

> means 'greater than' = means 'equals' or 'is equal to'

The wider part of < and > belongs next to the larger number and the narrow point belongs next to the smaller number, e.g. 26 < 42 (26 is less than 42) and 42 > 26 (42 is greater than 26).

## ACTIVITY



### What to do

- Use the paper clip and pencil as shown in the picture above to create a spinner.
- Take turns to create a 2-digit number by first spinning on the tens digit circle and then the ones digit circle. Say the number and write it on a piece of paper. Draw a box to the right of it. Repeat to make a second 2-digit number, say it and write it to the right of the box, e.g. 36 47.
- Write the correct less than or greater than sign (< or >) in the box in between the two numbers.
- Score a point for every correct comparison. The winner is the player with the most points after a chosen number of turns or a set amount of time.

#### Variation

• Look for 2-digit numbers up to 50 in everyday life and compare them.

## QUESTIONS TO ASK

How many tens/ones are there in that 2-digit number? How do you know which sign to use in between the two numbers? If the two numbers have the same number of tens, how do you know which number is less/greater than the other?

# **Addition and subtraction**

## HERE'S THE MATHS

An addition and subtraction fact family is a group of four related facts made using the same three numbers. This fact family is made using the numbers 2, 10 and 12:

10 + 2 = 12 2 + 10 = 12 12 - 10 = 2 12 - 2 = 10

## ACTIVITY

13	1	10	5	15	20	3
4	14	19	17	0	12	9
18	7	2	11	8	6	16

You will need:

pencil and paper

#### What to do

- Take turns to pick two numbers from the grid above.
- Agree whether to add or subtract the two numbers (if adding, the total must be 20 or less) and each write the calculation on your own piece of paper.
- Use the three numbers to create your own fact family by writing the other three related addition and subtraction facts.

#### Variation

• Write each number 0 to 20 on a small piece of paper and arrange them in groups of three numbers that make fact families. Write +, - and = on other pieces of paper and then time how long it takes to arrange each set of three numbers in all four ways.

## **QUESTIONS TO ASK**

