# Week 14, Day 4 <br> Number puzzles (2) 

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.

2. 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. Have I mastered the topic? A few questions to Check your understanding.
Fold the page to hide the answers!

## Learning Reminders

## Use number facts to solve 'arithmagons'.



The mystery numbers in 2 circles add up to the number in the square between them.

So what could the numbers in highlighted circles be? The two numbers must add up to 5 .

Use number facts to solve 'arithmagons'.


## Learning Reminders

Use number facts to solve 'arithmagons'.


## Use number facts to solve 'arithmagons'.



Now have a go at this one. The mystery numbers are all multiples of 10.


## Practice Sheet Mild

Solve these arithmagons


Practice Sheet Hot
Solve these arithmagons


## Practice Sheet Answers

Practice Sheet (Mild)


Practice Sheet (Hot)


## A Bit Stuck? Testing triangle

Things you will need:

- 1-6 number cards


## What to do:

Your challenge is to arrange the six number cards in a triangle so that the total of each side is 10.

It will need some trial and improving!


## HINT:

Think about where to put 6.
It needs to ONLY affect one row.
Then it needs small numbers either side.


## Check your understanding: Questions

Write the missing numbers:
$6+8+=20$
$7+\quad+4=18$
$+45+25=100$

Write three possible pairs of missing numbers:

| 100 |  |  |
| :---: | :---: | :---: |
| 60 | $?$ | $?$ |

Write three possible pairs of missing numbers:

| $\mathbf{8 0}$ |  |  |
| :--- | :--- | :--- |
| 30 | ? | ? |

Fold here to hide answers:

## Check your understanding:

## Answers

Write the missing numbers.
$6+8+6=20$
$7+7+4=18$
$30+45+25=100$

Write three possible pairs of missing numbers:

| 100 |  |  |
| :--- | :--- | :--- |
| 60 | $?$ | $?$ |

Any pair of numbers with a total of 40, e.g. 40 and 0,30 and 10,27 and $13 . .$.

Write three possible pairs of missing numbers:

| $\mathbf{8 0}$ |  |  |
| :--- | :--- | :--- |
| 30 | $?$ | $?$ |

Any pair of numbers with a total of 50 , e.g. 30 and 20,25 and 25,42 and $8 \ldots$

