Number Detectives!

Maths challenge at The Model Village

STUDENT INTRODUCTION

✓ Use your observation skills to answer these model village maths challenges!

DATA LOG

» As you walk around The Model Village use the tables below to record data!

» Your data will be useful in answering some of the questions...

	Red Squirrels	Horses	Dogs	Cats	Pigs
Tally Chart How many animals are there?					

Model Vehicle Registration Number	Where Spotted

Dates	Where Spotted

Let the challenge begin!

A Look out for the letters on the path as you walk around The Model Village. They will help you find the answers to these questions!

What **decade** are these aeroplanes from?

Why are they called **bi-planes**?

B

Look out for red squirrels as you walk up the street – record them on your tally!

C

D

E

Look for the model of the Model Village. It is 1/10th scale of the Model Village. Can you see the real church, the model church and the model of the model church? What is the scale to the original buildings?

Are there **fewer** beach huts or boats?

F

The model airship is **1/100th scale**. It is **2.1m** long.

How long would it be if it were to **1/10th scale**?

How long was the real thing?

G

There should be 10 fielders, 1 bowler, a referee and 2 batsmen out on the cricket pitch.

Does the fielding team have the correct number of players?

H

Look out for model cars around the Monteagle hotel and add them to your log !

Upper Chine Girls School

For how many years was the school used by the Royal Marines?

How many chimney pots can you count in total?

How many groups of **THREE** pots are there?

Write a number sentence to show this

_____ x _____ = _____

How many groups of **TWO** pots are there?

Write a number sentence to show this

_____ x _____ = _____

CHALLENGE!
Complete this equation:

(_____ x _____) + (_____ x _____) = total number of chimney pots!
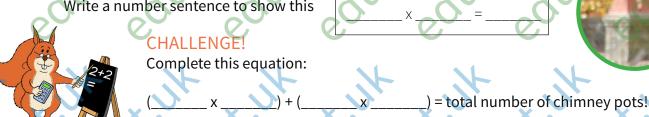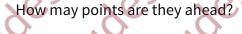
Before moving on, add the number plates of the two vehicles

Find the archery contest

On the target, blue scores 10, red scores 25 and yellow scores 50.

Is the red team or the blue team winning?

How may points are they ahead?

Find the retirement plot

How many small ridge tents can you see?

If 2 people can sleep in one of these tents, how many people in total can sleep in all the small tents?

Count the campers. Look behind you too!
How many are there?

Are there enough tents?   How many more are needed?

Find the High Street shops

for your final challenges!

You'll notice that all the prices in the shops are in "old money" which was used until 1971.

There were 12 pence in one shilling. Pence was written as letter **d**. One shilling was written as **1/-**

So something costing 18 pence would be written as one shilling and six pence or 1/6.

Something costing 3/6 would be three shillings and six pence, or 42 pence.

A pound was 12 shillings, or 240 pence!

Check out the prices in the shops and write down the answers in **old money**

One long loaf _____   What would 2 cost? _____

A cucumber _____   How many could you buy for a shilling? _____

A pork pie _____   What would 2 cost? _____

A lobster _____   How many old pence is that? _____

Find the sign to Ventnor

How far is Ventnor?

How far would that be in a 1/10 scale model?

So... how many squirrels did you manage to find?