MULTIPLICATION AND DIVISION ACTIVITIES

DOWN ON THE FARM

There are some rabbits and chickens in a field.

Together they have 35 heads and 94 feet.

How many rabbits?

How many chickens?

ELEVENSES

Choose a two-digit number 37

Reverse it 73

# Add them together 110 This is divisible by 11

Does this always work?

Why does it work?

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Try a four-digit number 1653

Reverse it 3561

# Add them together 5241 Is this divisible by 11?

# Try other 4 digit numbers…

Does it always work?

What about 3 digit numbers?

Can you find a rule?

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MISSING OPERATIONS

Each box represents a missing operation (+, -, x or )

Can you find out what it is?

A (37 21) 223 = 1000

B (756 18) 29 = 1218

C 27 (36 18) = 675

D 31 (87 19) = 2108

# LARGEST AND SMALLEST

You may use each of these keys only once:

 1 2 3 4 5 x =

# What is the largest number you can make?

What is the smallest number you can make?

Try with five other digits.

Try using 1, 2, 3, 4, 5, 6 or 1, 2, 3, 4, 5, 6, 7.

Can you find a rule for making the biggest product?

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BROKEN CALCULATOR

The calculator is broken!

Only the following keys work:

2, 5, 6, x, , +, =

Using just these numbers can you make every number from 1 to 25?

INVADERS

Put a six digit number into the display.

You must change each of the 6 digits to zero in as few turns as possible.

On each turn you can use only one number key, the zero key as often as you like and the + key.

Example:

Start number key presses display

123 456 + 4 123 480

 + 20 123 500

 + 500 124 000

 + 6 000 130 000

 + 70 000 200 000

 + 800 000 1 000 000

6 ‘goes’ – well done!

Variation:

Use a decimal number for example 451.326

On each turn you can use only one number key, the zero key as often as you wish, the decimal point and the — key.

Shoot down the digits to zero (or make them disappear) in numerical order 1, 2, 3, 4, 5, 6…