

# 7-9: REMOTE MATHS

EDITION 11

## NUMBER AND ALGEBRA - WARM UPS

**Mathematical language:** Expression, equation, sequence, product.

### TASK 1: TRUTH TILES

Use the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 to make the equations true.

- All blanks must be filled
- All numbers must be used
- Only use each number once.

<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
<input type="text"/>	-	<input type="text"/>	=	<input type="text"/>
<input type="text"/>	x	<input type="text"/>	=	<input type="text"/>

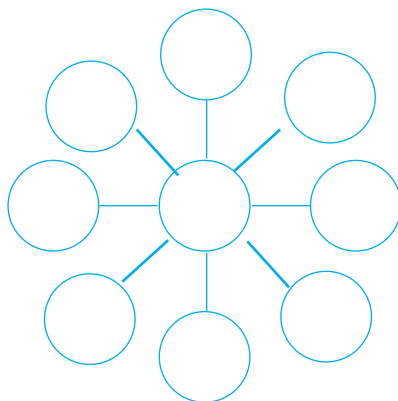
When you have one solution, see if you can make another possible solution.

*Extending prompt:*

- How many possible solutions are there?
- How will you know when you have found them?

### TASK 2: TOTAL TO 12

- Write in each of the numbers 1 through to 9 so that every group of 3 numbers in a line adds up to 12.



## EDITION 11: NUMBER AND ALGEBRA (CONT.)

### TASK 3: ALGEBRAIC EXPRESSION

Use any 4 different digits from 1-9 to make a correct equation

$$(\square + \square) \times (\square \div \square) = 24$$

- *Extending prompt:* When you have one solution, see if you can make another possible solution.

### TASK 4: NUMBER PATTERNS

In the following sequence, one of the numbers is wrong. Which one is it? and What should it be?

7

11

17

31

47

67

91

### TASK 5: FAMILY AGES

There are three children in the Wilson family, including a pair of twins.

The product of their ages (in years) is 98. How old is the youngest child?

- *Extending prompt:* Can you show this algebraically?



*Look out for more tasks next week!*

