Recall 1

Flashback 4

Year 5 | Week 1 | Day 1

1) What is the area of a square with a side length of 6 cm?

2) What is 24 × 3?

3) Find the sum of £1,250 and £3,940

4) Write down a 4-digit number with 3 in the hundreds column.

White

Recall 1

Flashback 4

Year 5 | Week 1 | Day 1

1) What is the area of a square with a side length of 6 cm? 36 cm^2

2) What is 24 × 3? 72

3) Find the sum of £1,250 and £3,940 £5190

4) Write down a 4-digit number with 3 in the hundreds column. _ 3 _ _

Lesson 1 – Multiply up to 4 digit by 1 numbers

Recall 2

Fill in the missing numbers in the multiplication square.

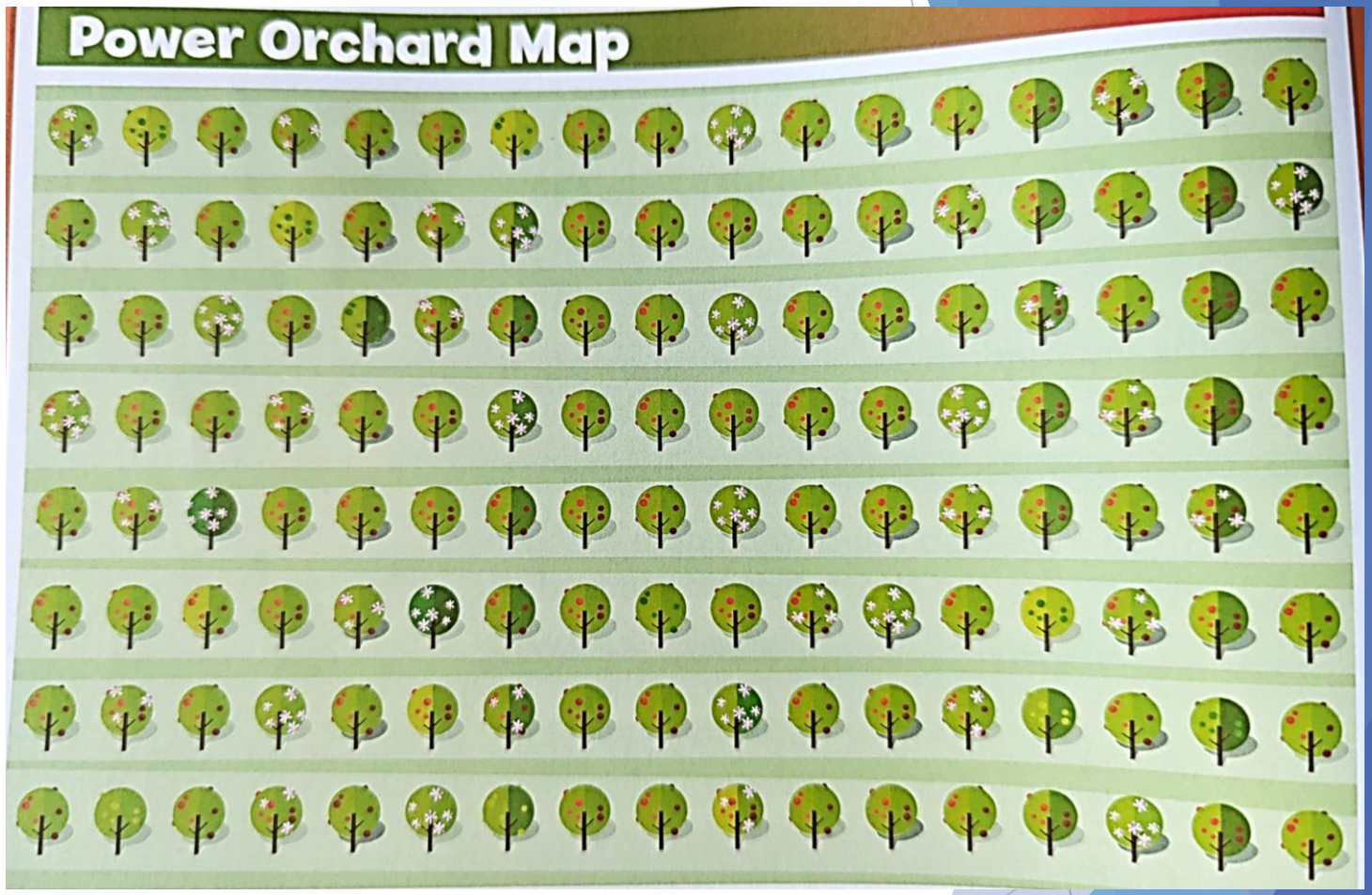
×	1	2	3	4	5	6	7	8	9
1	1	2		4	5	6		8	9
2	2				10	12	14		18
3	3	6	9		15			24	27
4	4		12		20	24	28	32	

LO: To be able to multiply numbers up to 4 digits by a 1 digit number

Top Down	Self Assessment
Some of us will even: I can answer problem solving and reasoning questions when multiplying up to 4 digits by 1 digit numbers	
Some of us will: I can multiply 4 digits by a one digit number	
Most of us will: I can multiply 3 digits by a one digit number	
All of us will: I can multiply 2 digits by a one digit number	

Guided practice – My turn

- Welcome to Power Orchard farm! Its harvest time!
- How many trees are in the orchard?
- I pick 6 apples from each tree. How many apples do I have altogether?

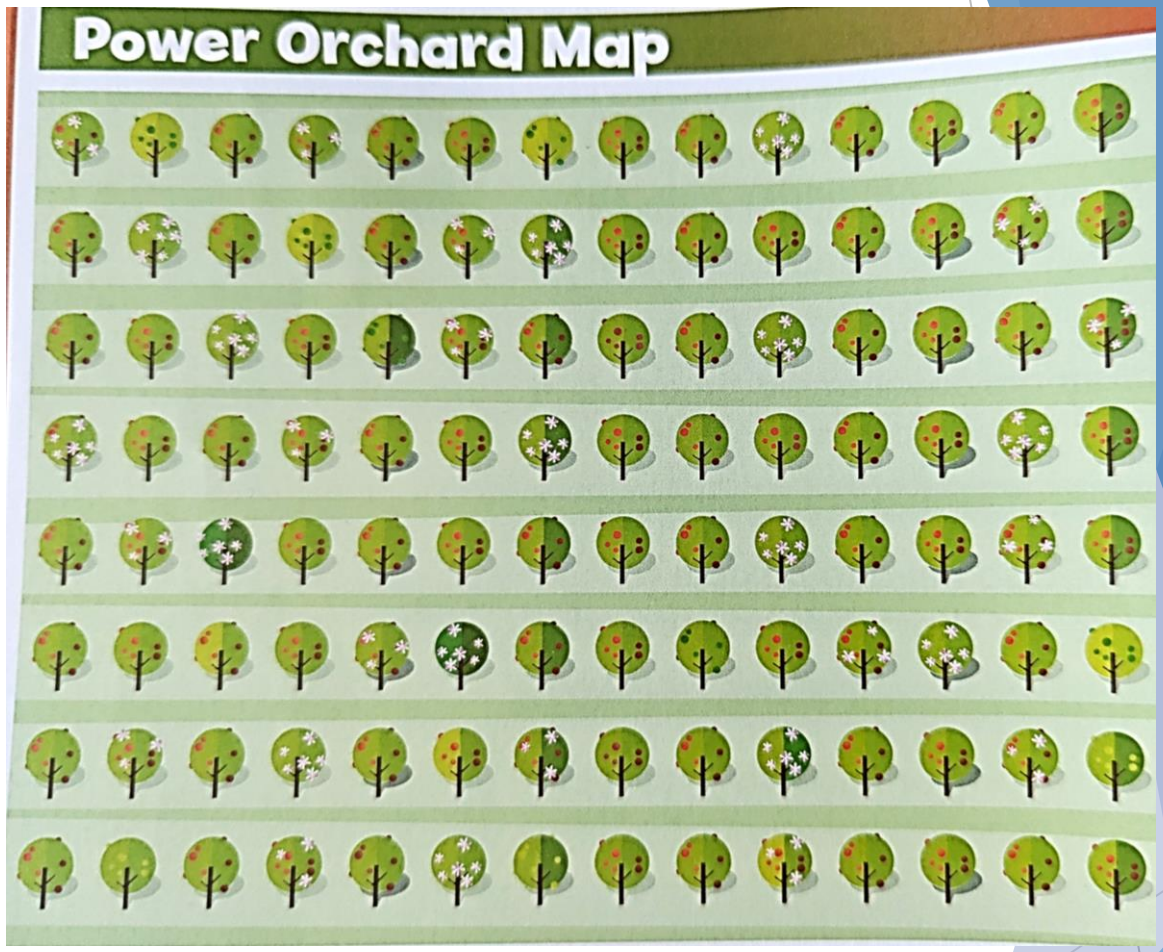


- A multiplication square may be helpful

- How many apples would I have if I planted another 15 trees?

Guided practice – My turn

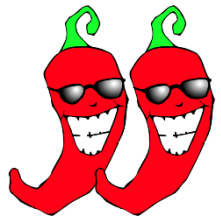
- Welcome to Power Orchard farm! Its harvest time!
- How many trees are in the orchard?
- You pick 7 apples from each tree. How many apples do you have altogether?

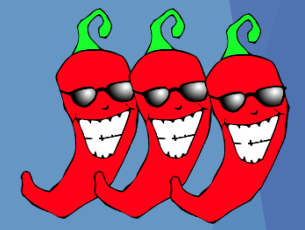


- A multiplication square may be helpful

- How many apples would I have if I planted another 12 trees?

Intelligent Practice





Solve these multiplications	Solve these multiplications	Solve these multiplications
1. 67 x 5 = 2. 74 x 6 = 3. 35 x 7 = 4. 79 x 8 = 5. 48 x 9 =	1. 674 x 5 = 2. 564 x 6 = 3. 866 x 7 = 4. 674 x 8 = 5. 467 x 9 =	1. 6748 x 5 = 2. 7647 x 6 = 3. 7777 x 7 = 4. 2589 x 8 = 5. 6748 x 9 =

$$\begin{array}{r} 2\,3\,9\,? \\ \times \qquad 7 \\ \hline 1\,6\,7\,8\,6 \\ \hline \cancel{2}\;\cancel{6}\;\cancel{5} \end{array}$$

$$\begin{array}{r} 4\,?\,8\,6 \\ \times \qquad 6 \\ \hline 2\,8\,7\,1\,6 \\ \hline \cancel{4}\;\cancel{5}\;\cancel{3} \end{array}$$

Dive Deeper 1

1)

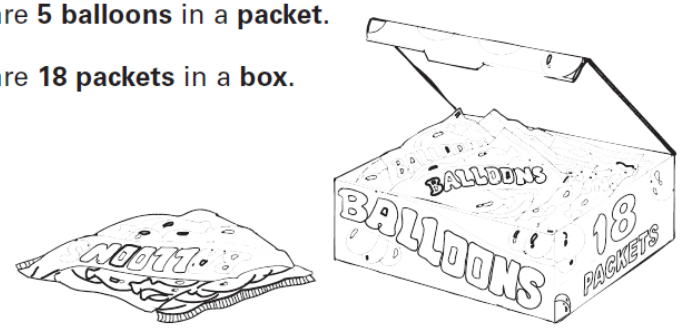
Write in the missing digits to make this correct.

$$\square\,4\,\square \times 6 = 2052$$

2)

There are **5 balloons** in a **packet**.

There are **18 packets** in a **box**.



How many balloons are there altogether in a **box**?

3)

4a. Freddie has completed the following calculations.

2,231 x 4 = 8,924

1,207 x 4 = 4,828

2,613 x 3 = 7,839

4,283 x 2 = 8,466

Mark and correct his work.

4)

Missing Digits

$$\square 2 \square \times 6 = 2568$$

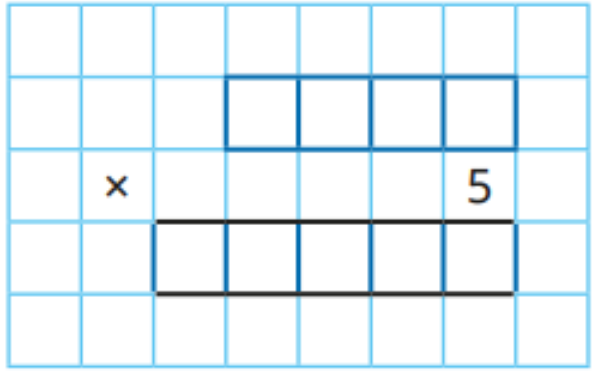
$$5\square 4 \times \square = 4192$$

$$\square 9 \square \times 5 = 3475$$

Dive Deeper 2

1)

Use the clues to work out the missing numbers.



- The four digits being multiplied are consecutive numbers.
- The first two digits of the product are the same.
- The fourth and fifth digits of the product add to make the third.

Find all the possible solutions.

2)

9b. A TV package costs £1,991. Mrs Sajjad says the total cost of 6 packages will be £11,446.

Th	H	T	O

×

Is she correct? Prove it.

3)

1. Ivan the bank manager has forgotten the code to enter the underground vault at his bank. He remembers that the code was the result of multiplying a 4-digit number by 3.

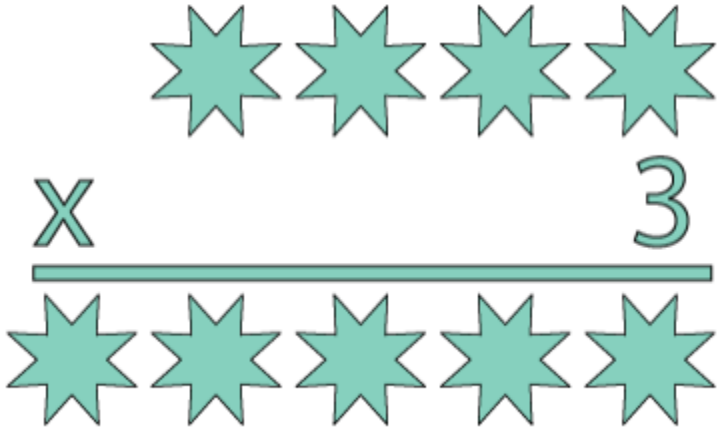
The 4-digit number Ivan multiplied was made from the digits 0-9 where each digit was only used once. The code was a 4-digit number, and one of the digits was repeated twice within the code.

× 3

Explore what the 4-digit code could be.

All the Digits

This represents the multiplication of a 4-digit number by 3.



The whole calculation uses each of the digits 0 - 9 once and once only.

The 4-digit number contains three consecutive numbers, which are not in order. The third digit is the sum of two of the consecutive numbers.

The first, third and fifth digits of the five-digit product are three consecutive numbers, again not in order. The second and fourth digits are also consecutive numbers.

Can you replace the stars in the calculation with digits?