Maths

Primary Progression – Multiplication & Division

White Rose Maths

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication & Division: Solve Problems	• solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher **Summer 1**	• solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts **Autumn 4 Spring 1**	• solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects **Spring 1**	• solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects **Spring 1**	• solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes • solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates **Autumn 4 Spring 1**	• solve problems involving addition, subtraction, multiplication and division **Autumn 2**

Curriculum Progression

Strand: to be able to multiply

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Foundation stage:

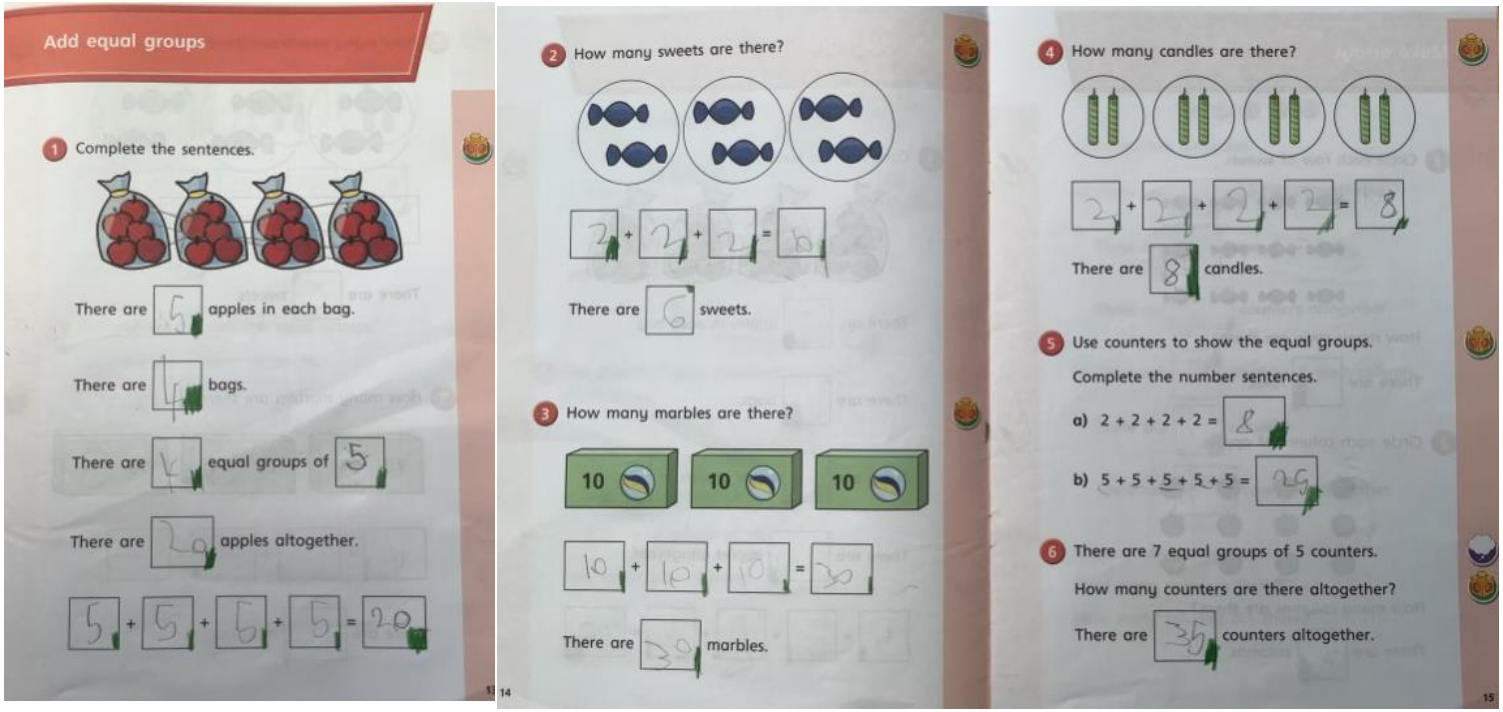
Children can begin to multiply using sharing and grouping.

Key Vocabulary

share, groups

Y1:

Children can multiply by adding equal groups.



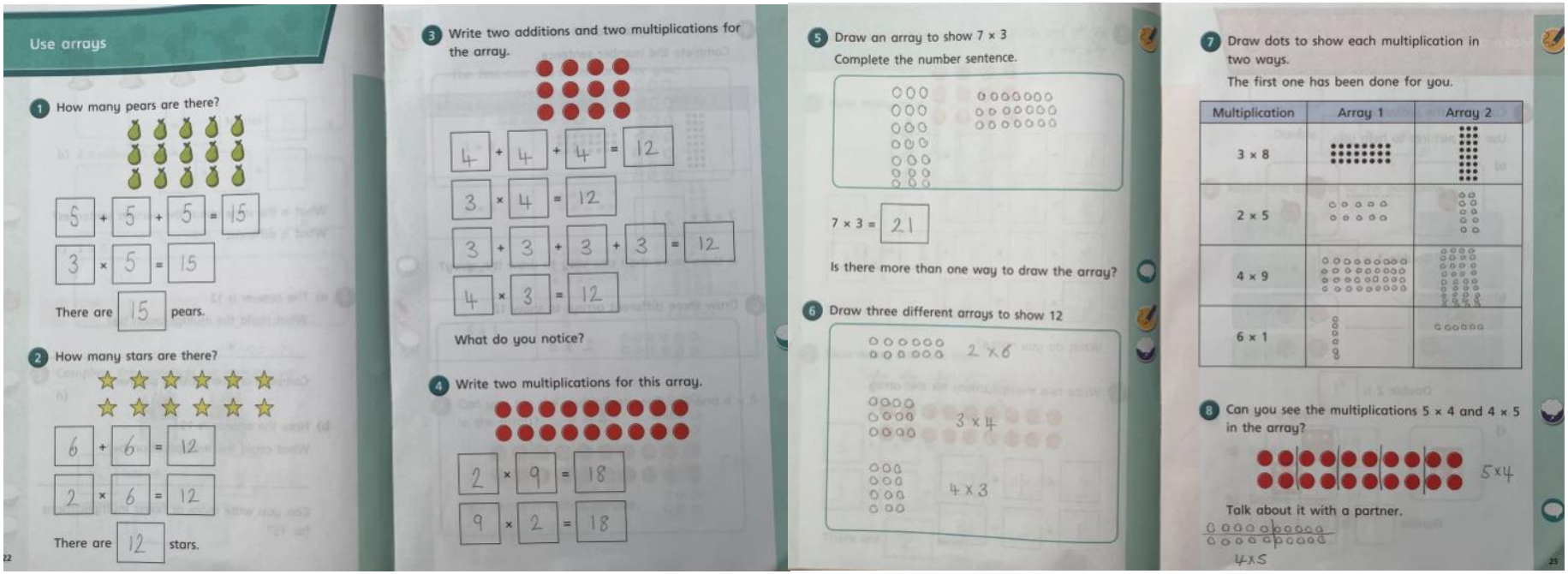
Key

Vocabulary

repeated addition, groups of

Y2:

Children can multiply by using arrays.



Use arrays

1 How many pears are there?

5 + 5 + 5 = 15

3 × 5 = 15

There are 15 pears.

2 How many stars are there?

6 + 6 = 12

2 × 6 = 12

There are 12 stars.

3 Write two additions and two multiplications for the array.

4 + 4 + 4 = 12

3 × 4 = 12

3 + 3 + 3 + 3 = 12

4 × 3 = 12

What do you notice?

4 Write two multiplications for this array.

2 × 9 = 18

9 × 2 = 18

5 Draw an array to show 7 × 3

Complete the number sentence.

7 × 3 = 21

Is there more than one way to draw the array?

6 Draw three different arrays to show 12

2 × 6

3 × 4

4 × 3

7 Draw dots to show each multiplication in two ways.

The first one has been done for you.

Multiplication	Array 1	Array 2
3 × 8		
2 × 5		
4 × 9		
6 × 1		

8 Can you see the multiplications 5 × 4 and 4 × 5 in the array?

5×4

Talk about it with a partner.

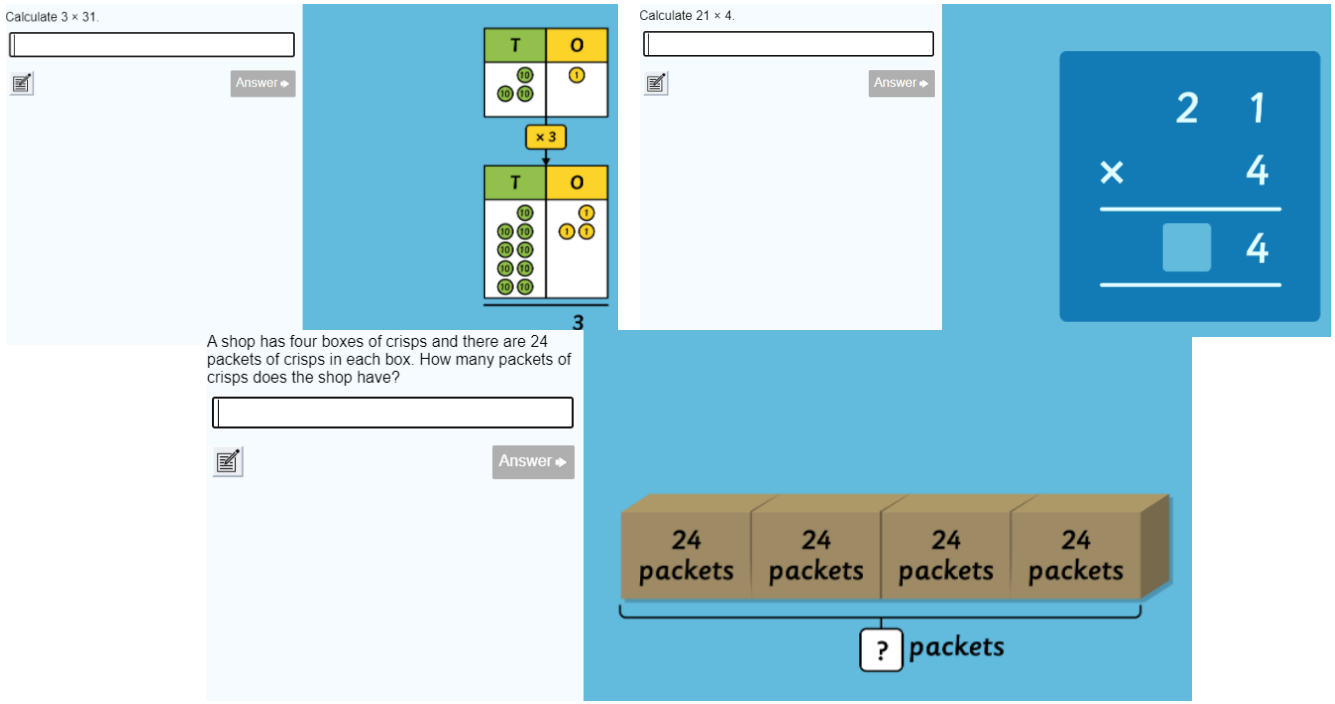
4×5

Key Vocabulary

columns, rows, multiply

Y3:

Children can use short multiplication to multiply a two-digit number by a one-digit number.

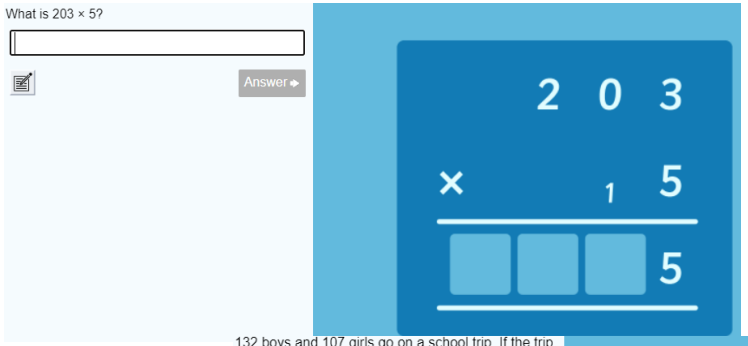


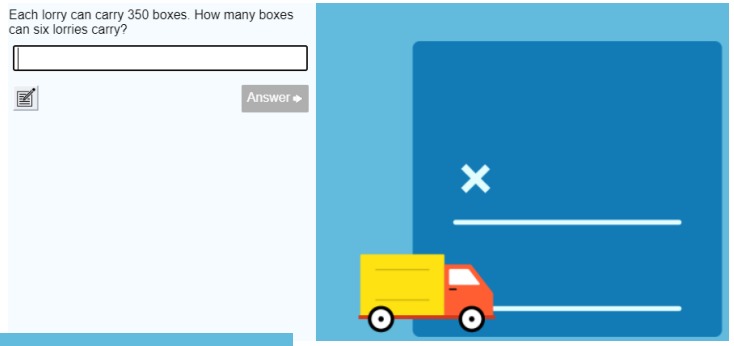
Key Vocabulary

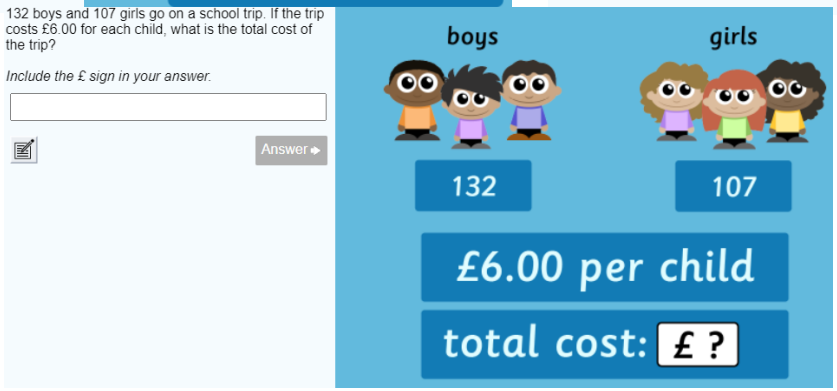
column, carry, tens

Y4:

Children can use short multiplication to multiply a three-digit number by a one-digit number.





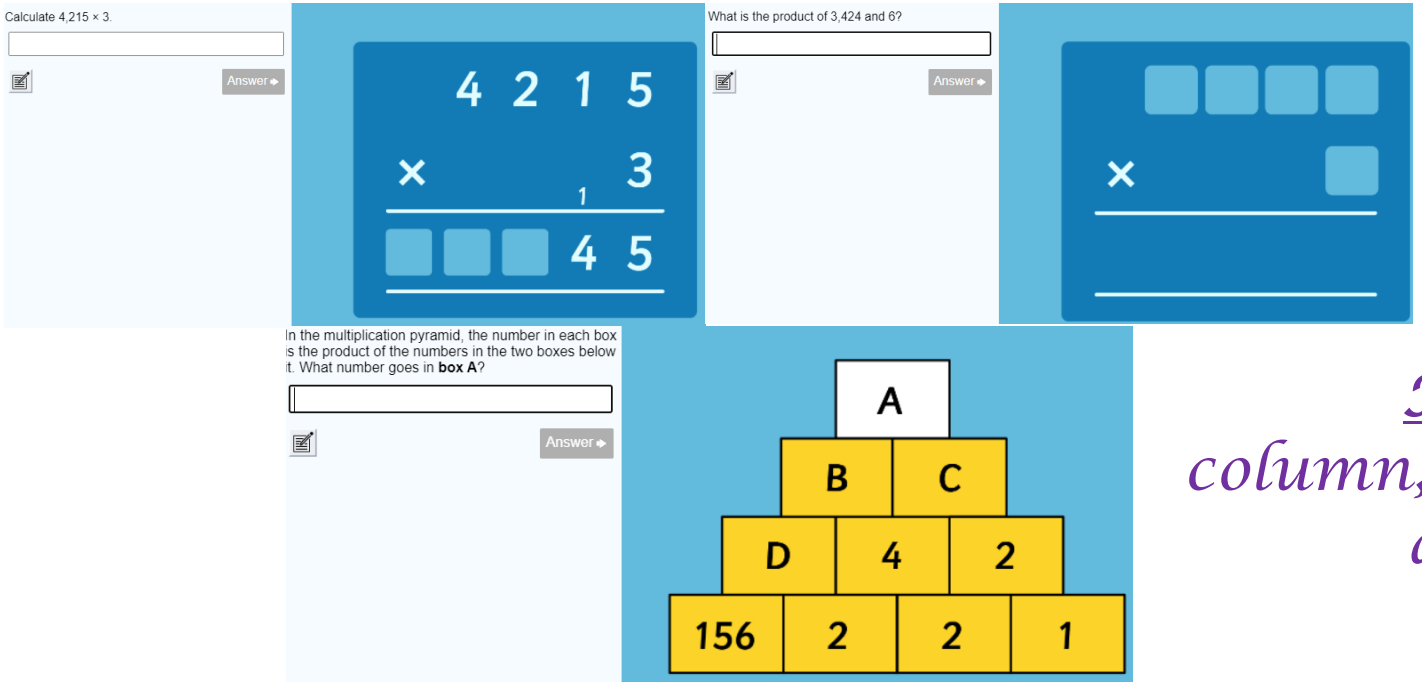


Key Vocabulary

column, carry, tens, carried digit

Y5:

Children can use short multiplication to multiply a four-digit number by a one-digit number.

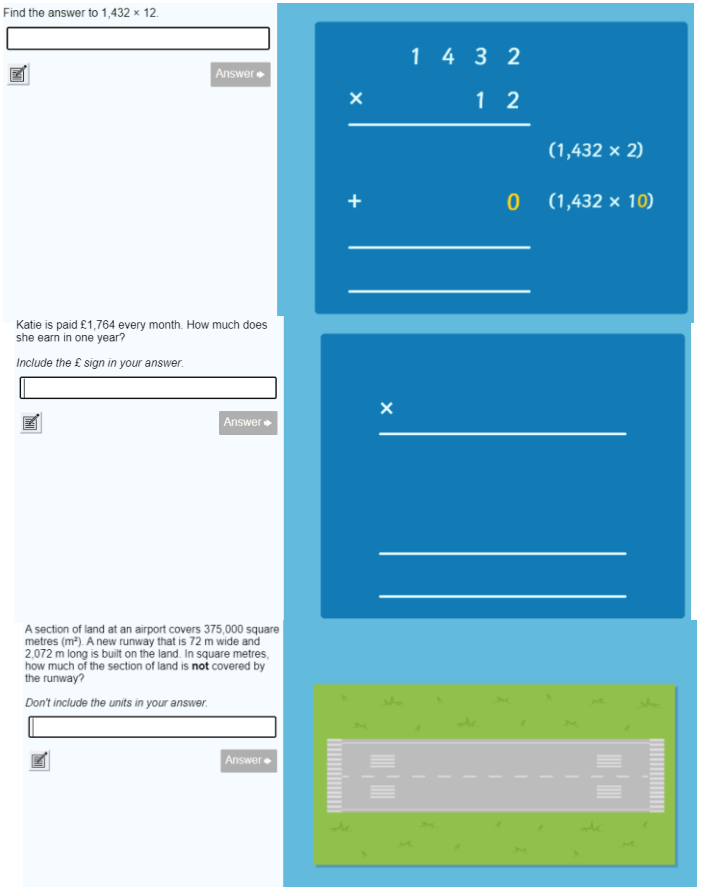


Key Vocabulary

column, carry, tens, carried digit, product

Y6:

Children can use long multiplication to multiply a four-digit number by a two-digit number.

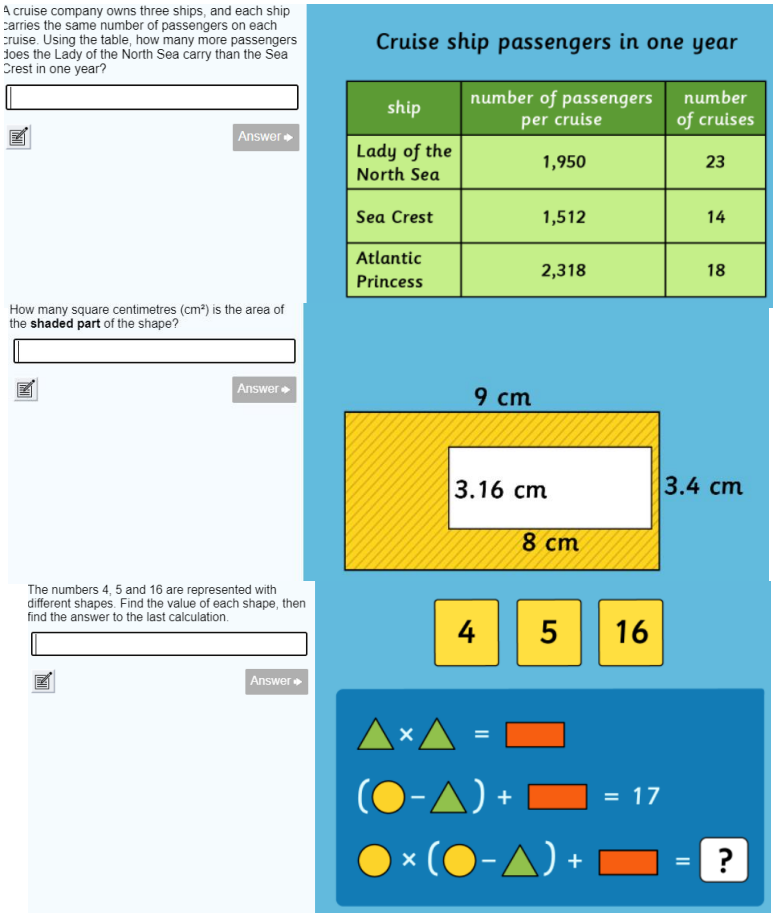


Key Vocabulary

column, carry, tens, carried digit, product, place holder

Mastery:

Children will solve problems involving multiplication including using knowledge of factors and multiples, squares and cubes.



Key Vocabulary

column, carry, tens, carried digit, product, place holder, inverse