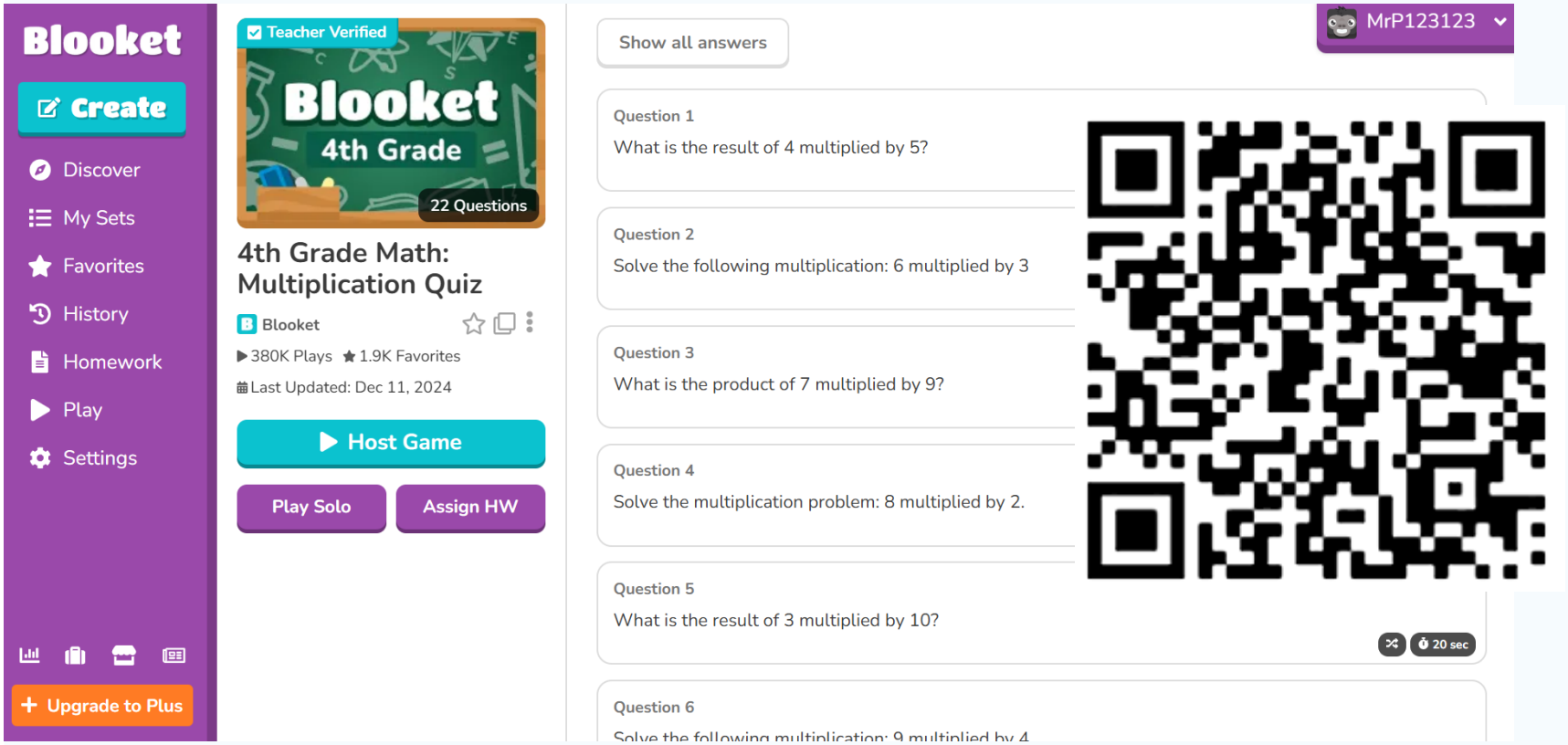
Whilst we are waiting, scan the code, enter your initials and complete the Blooket homework.



https://play.blooket.com/play?hwId=69713dbf1b380a3b64088ef7

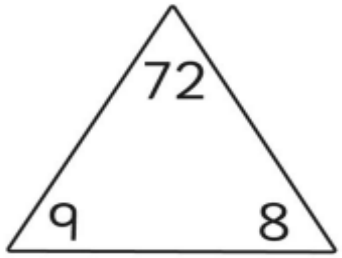
Year 5:

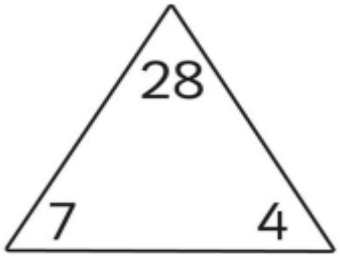
Open lunch

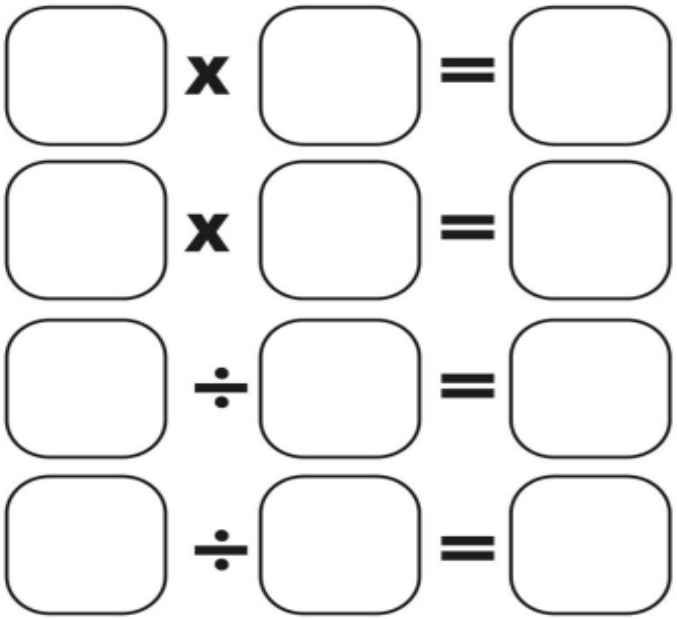
21 . 1 . 26

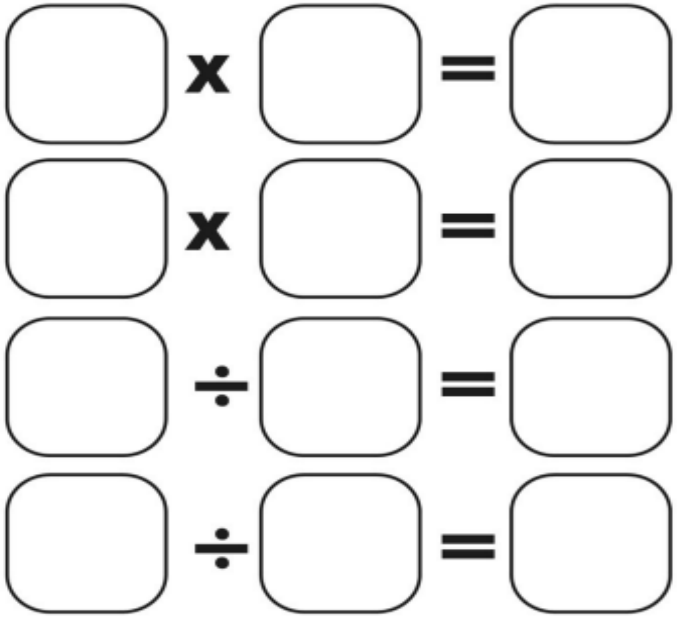
To use different methods for multiplication

Fact families are really useful to know:









Extension: Can you give your partner a multiplication. Can they write the fact family for that multiplication.

Using known facts to solve problems:

30 x 4 =

300 x 70 =

90 x 80 =

120 x 4 =

Multiplication Strategies:

Multiplication Strategies

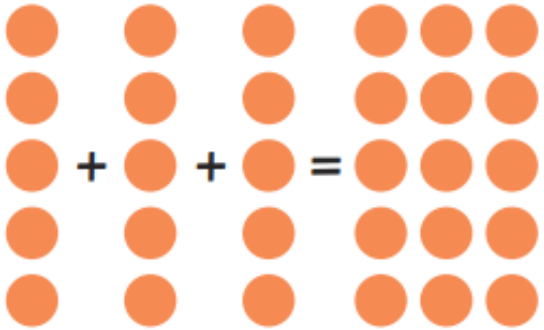
Equal Groups

Use the same number of ones in each group.

3 × 5 = 15

Multiplication Strategies

Repeated Addition



3 × 5 = 15

Multiplication Strategies

Column Method

4-digit × 2-digit regrouping not shown

	5368	Write the numbers above each other in the columns.
×	24	
	5368	
×	24	Multiply 5368 × 4
	1472	
	5368	
×	24	Multiply 5368 × 20
	21472	
	107360	
	21472	
+	107360	Add the products.
	128832	

5368 × 24 = 128 832

Using formal written methods.

$3{,}211 \times 3 =$ _____

Th	H	T	O

	3	2	1	1	
×				3	

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones

	3	2	1	1	
×				3	

Let's make 3,211 on the place value chart.

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	

Let's make 3,211 on the place value chart.

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	

As we are multiplying by 3, we need 3 lots of this number.

Activity 1

Multiply a 4-digit number by a 1-digit number

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	

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Activity 1

Multiply a 4-digit number by a 1-digit number

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	

Now we need to add each column. Which column do we start with?

Activity 1

Multiply a 4-digit number by a 1-digit number

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	

Now we need to add each column. Which column do we start with?

We always start with the ones column!

Activity 1

Multiply a 4-digit number by a 1-digit number

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	

We can see 3 ones. Do we need to make an exchange?

Activity 1

Multiply a 4-digit number by a 1-digit number

Here is a question for you to complete.

$3{,}211 \times 3 =$ _____

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	
	9	6	3	3	

Activity 1

Multiply a 4-digit number by a 1-digit number

Here is a question for you to complete.

$3{,}211 \times 3 =$ 9,633

Thousands	Hundreds	Tens	Ones
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1
1,000 1,000 1,000	100 100	10	1

	3	2	1	1	
×				3	
	9	6	3	3	

Can you complete the word problem?

There are 2,214 seats in a theatre. The theatre is fully booked for 3 shows. How many people attend overall?

	2	2	1	4	
×				3	

What is the answer?

Your turn to have a go..

$$\begin{array}{r} 426 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3426 \\ \times \quad 3 \\ \hline \\ \hline \end{array}$$

Have a go...
Correct or incorrect?

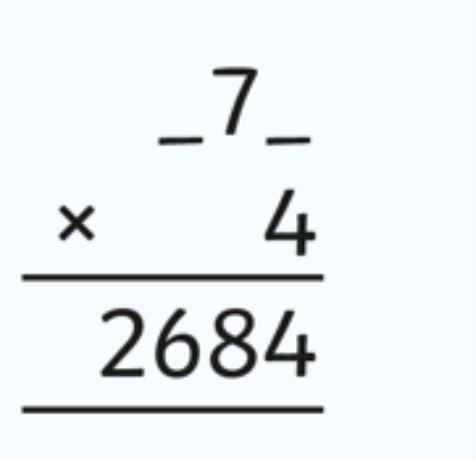
$$\begin{array}{r} 452 \\ \times \quad 3 \\ \hline 12156 \\ \hline \end{array}$$

Have a go...
Correct or incorrect?

$$\begin{array}{r} 3168 \\ \times \quad 4 \\ \hline 12442 \\ \hline \end{array}$$

Missing Numbers

Calculate the missing number using formal methods.



Missing Numbers

Calculate the missing number using formal methods.

$$\begin{array}{r} \_0\_4 \\ \times \quad 5 \\ \hline 45170 \\ \hline \end{array}$$

TASK:

Give your partner a 4-digit number and a 1-digit number for your partner to solve.

TASK:

Challenge

Can your partner multiply their 4-digit number by a 2- digit number of your choice?

Missing Numbers

2364 × 4 = ____	4368 × 2 = ____	1368 × 2 = ____	9366 × 1 = ____
1364 × 4 = ____	3368 × 2 = ____	1361 × 6 = ____	

This can be repeated with any number of 1000s, so 8 more.

Write a missing number multiplication calculation with several solutions for a partner to solve.

Missing Numbers answers

2364 × 4 = 9456	4368 × 2 = 8736	1368 × 2 = 2736	9366 × 1 = 9366
1364 × 4 = 5456	3368 × 2 = 6736	1361 × 6 = 8166	

This can be repeated with any number of 1000s, so 8 more.

Write a missing number multiplication calculation with several solutions for a partner to solve.

TASK:

1. In a garden there is space for 20 rows of 14 seeds in a flower bed. How many seeds are in a flower bed?

2. There are 15 rows of 20 stickers on a sheet. How many stickers are there on a sheet?

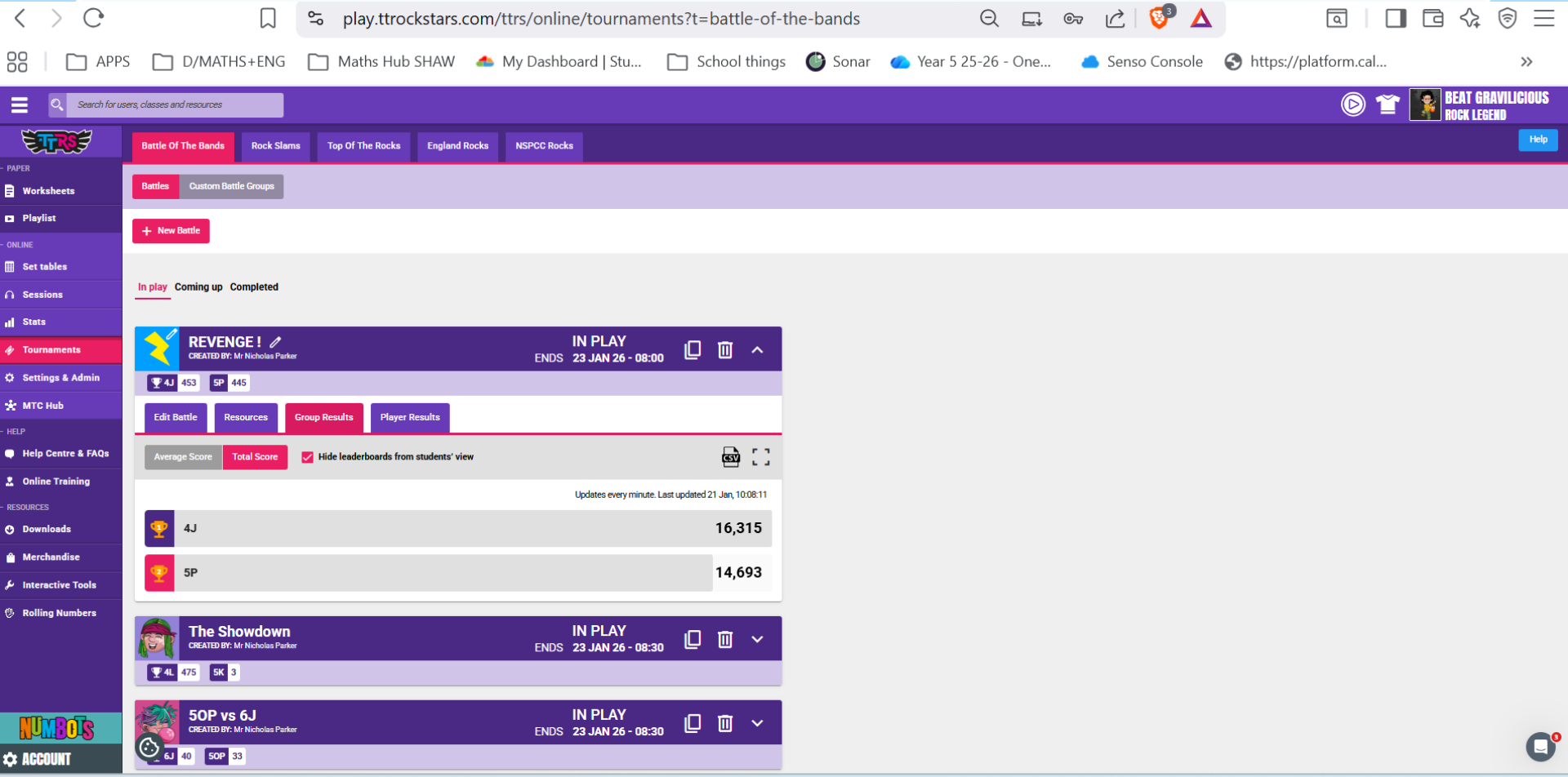
3. There are 35 rows of 24 dominoes. How many dominoes are there altogether?

4. There are 38 boxes of cereal on a shelf. How many boxes on 10 shelves?

What can you do at home to help?

- TTRS or Blooket
- BBC Bitesize
- Topmarks
- YouTube
- Singing / rapping / chanting
- Car journeys
- Post-it notes
- Walking up and down the stairs
- Tricks
- Any opportunity, ask a question?
- Real life problems - supermarket

Current TTRS



Thank you for attending

Any questions?

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