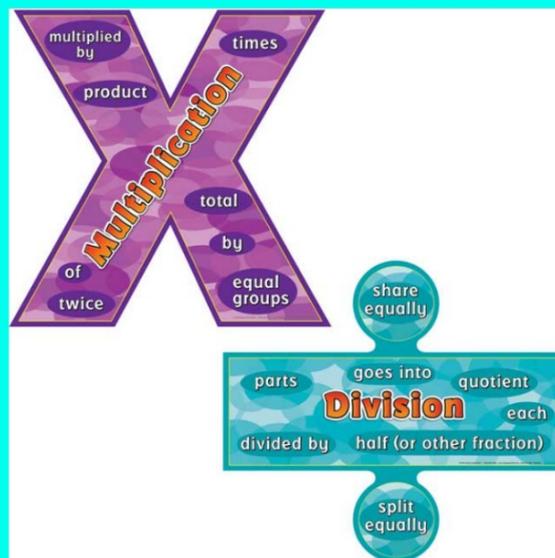


In maths, we are learning about...

MULTIPLICATION AND DIVISION



Glue in your title page

Multiplication and Division

2 2 . 1 1 . 2 1

LO: to recap my 2, 5, and 10 times tables.

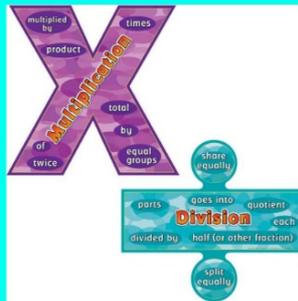
I know my 2, 5, and 10 times tables.

I can pick out key information in a question.

I understand how to apply my 2, 5, and 10 times tables.

In maths, we are learning about...

MULTIPLICATION AND DIVISION



We are Mathematicians!

We are learning to...

In year 2 we...

By the end of the year, we will be able to...

In future, this will help with ...

Key vocabulary we will use in this unit...

Flashback 4

Year 3 | Week 10 | Day 1

10×9

- 1) How many dots are there altogether?



- 2) Complete the sentence.



There are ___ groups of ___

- 3) Find the difference between 400 and 137

- 4) How many faces does a cube have?

Chant 2's, 5's, 10's

$2 \times 1 =$

$2 \times 2 =$

$2 \times 3 =$

$2 \times 4 =$

$2 \times 5 =$

$2 \times 6 =$

$2 \times 7 =$

$2 \times 8 =$

$2 \times 9 =$

$2 \times 10 =$

$2 \times 11 =$

$2 \times 12 =$

$5 \times 1 =$

$5 \times 2 =$

$5 \times 3 =$

$5 \times 4 =$

$5 \times 5 =$

$5 \times 6 =$

$5 \times 7 =$

$5 \times 8 =$

$5 \times 9 =$

$5 \times 10 =$

$5 \times 11 =$

$5 \times 12 =$

$10 \times 1 =$

$10 \times 2 =$

$10 \times 3 =$

$10 \times 4 =$

$10 \times 5 =$

$10 \times 6 =$

$10 \times 7 =$

$10 \times 8 =$

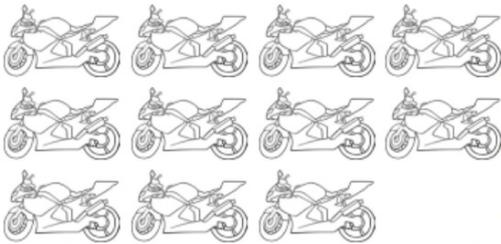
$10 \times 9 =$

$10 \times 10 =$

$10 \times 11 =$

$10 \times 12 =$

1. How many wheels would
11 motorbikes have?



2. If 7 taxis arrive at the party at the same time, each carrying 5 passengers, how many guests arrive at once?



1. Joe makes 5 trays of cakes. There are 10 cakes on each tray. How many cakes did he make altogether?

2. There are 5 children in a team. How many teams could you make with 40 children?

3. 12 children are at a party. They each eat 2 cakes. How many cakes are eaten altogether?

4. One spider has 8 legs. How many legs will 5 spiders have?

5. There are 7 days in one week. How many days are there in 5 weeks?

6. How many toes do 8 children have?



7. There are 60 worms in a bucket. Sam shares the worms fairly between 5 chickens. How many worms does each chicken get?

8. There are 4 wheels on one car. How many wheels will there be on 10 cars?

9. Daisy has 60 books. She gives half of them away. How many books does she have now?

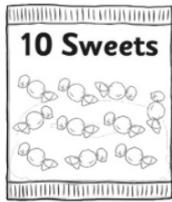
10. There are 45 chairs. They get stacked in piles of 5. How many stacks of chairs will there be when they have been put away?



7. Sam is sharing biscuits between himself and his four brothers. If there are 25 in the pack how many will they each get?



8. A machine making sweets puts 10 in each packet. If the machine has produced 70 sweets, how many packets can it fill?



9. Carol gives half of her owl collection to her sister. She has 35 owls remaining. How many did she have to start with?

Extension

Find all the possible calculations using the clues.

Find all the possible calculations using the clues.

$$2 \times \bigcirc = \square$$

The number in the circle is greater than 3.

The number in the square is less than 24.

Both numbers are even.

The number in the square is a 2-digit number.

$$5 \times \bigcirc = \square$$

The number in the circle is greater than 3.

The number in the square is less than 100.

Both numbers are *odd*.

The number in the square is a 2-digit number.

Time to fill in your target grid...

Year 3 NUMERACY TARGET GRIDS						
I can compare and order numbers up to 1000.	I can solve missing number problems.	I can solve multiplication and division problems, using scaling.	I can measure the perimeter of simple 2-D shapes	I can solve problems involving fractions	I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	I know how many seconds are in a minute, days in each month, year and leap year.
I can count from 0 in multiples of 4, 8, 50 and 100.	I can estimate the answer to a calculation and use inverse operations to check	I can solve multiplication and division problems.	I can estimate and read time to the nearest minute and compare times using appropriate vocabulary .	I can compare and order fractions, and fractions with the same denominator.		
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	I can add and subtract a 3 digit-number and ones mentally.	I can use efficient written methods to multiply a 2 digit and a 1 digit number.	I can measure and compare, add and subtract lengths (m/cm/mm)	I can count up and down in tenths.	I can make 3-D shape using modelling materials.	I can interpret and present data using bar charts.
Number and Place Value	Addition and Subtraction	Multiplication and Division	Measurements	Fractions	Geometry	Statistics

2 3 . 1 1 . 2 1

LO: to recap my 3 and 4 times tables.

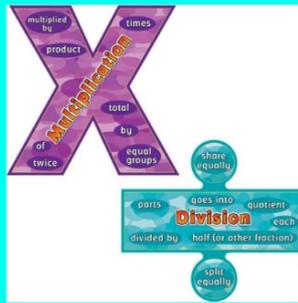
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I understand how to apply my 3 and 4 times tables to multiplication questions.

In maths, we are learning about...

MULTIPLICATION AND DIVISION



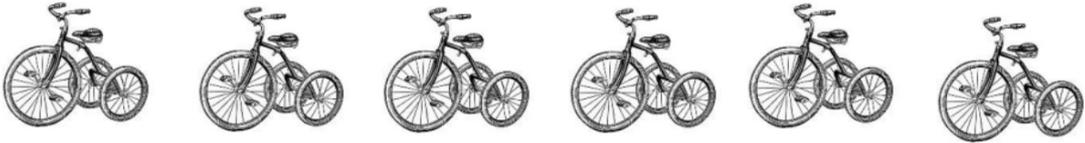
4×5

- 1) The cookies are shared equally between the plates.
How many cookies will there be on each plate?



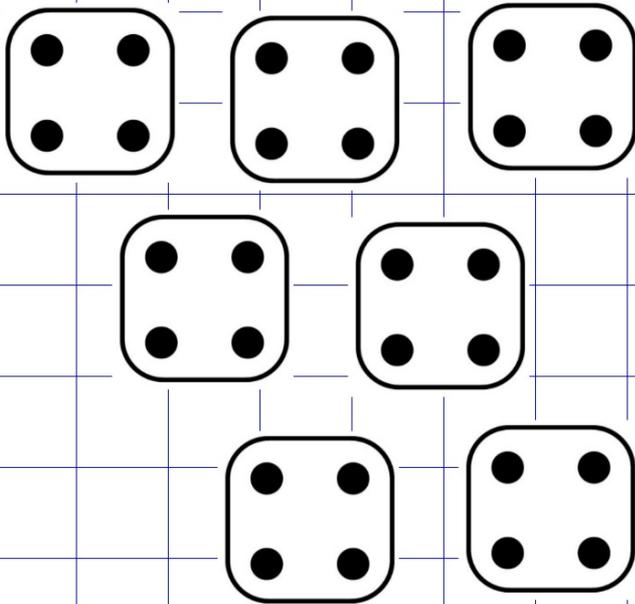
- 2) Calculate 5×3
- 3) Increase 482 by 193
- 4) Represent 32 in tally marks.

Here are 6 tricycles.



How many wheels are there?

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



*What multiplication
does this picture
show?*

x	1	2	3	4	5	6	7	8	9	10	11	12
3												
4												

Match each calculation to the correct representation.

A. 6×4



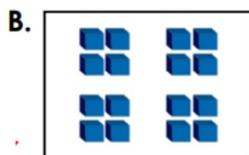
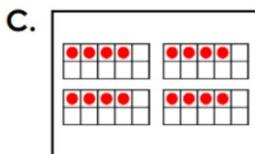
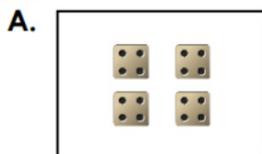
B. 5×4



C. 1×4



Which representation is the odd one out?



Complete the calculations using the images to help you.

A.  $\square \times 4 = \square$

B.  $4 \times \square = \square$

Complete the number sentences.



$$\square = 8 \times 3$$

$$3 \times 8 = \square$$

Circle the numbers and images that are in the 3 times table.

12  33 
 19  3

Choose one of these symbols to complete the statements

<, > or =

3×8 ○ 8×3

4×3 ○ 5×3

$3 + 3 + 3 + 3 + 3$ ○ 3×6

Sasha bought 7 balloons.

They cost £3 each.

Draw a diagram to show this.

How much do the balloons cost in total?

Create your own word problem for the 3 times table.

Extension

True or false?

Every number in the 3 times table is an odd number.

Explain why.

Time to fill in your target grid...

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2 4 . 1 1 . 2 1

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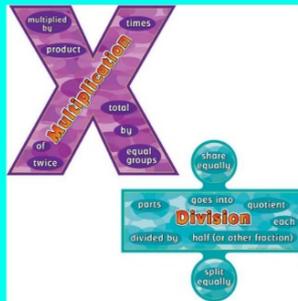
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MULTIPLICATION AND DIVISION



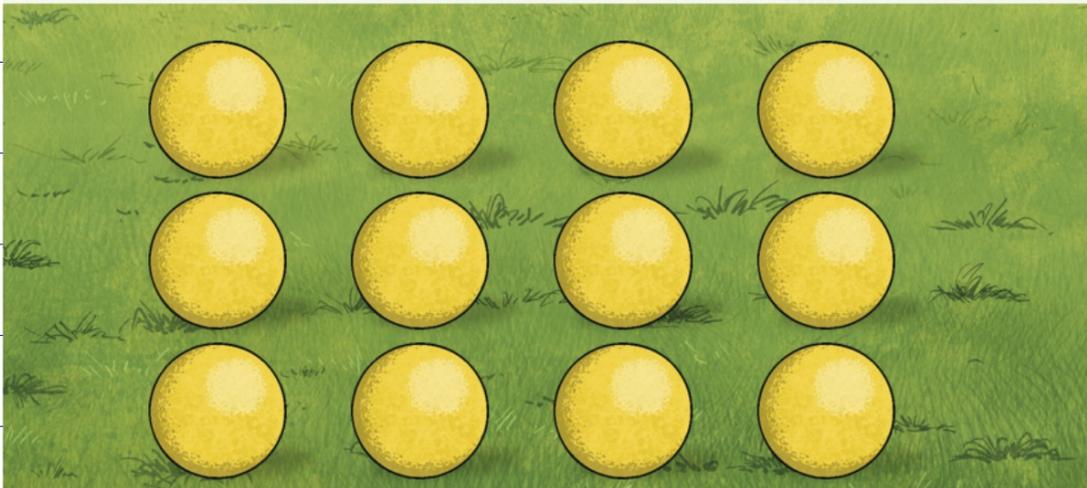
Flashback 4

Year 3 | Week 10 | Day 3

11×2

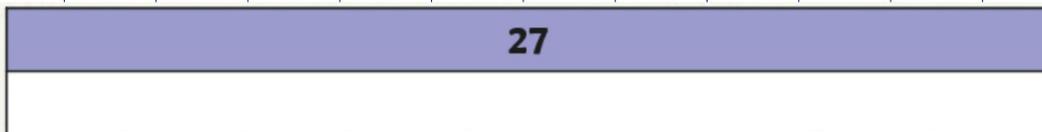
- 1) 20 children are put into groups of 4
How many groups will there be?
- 2) Draw two different arrays to show 9
- 3) If $734 - 212 = 522$, what is $734 - 213$?
- 4) What is $\frac{1}{4}$ of 40?

Divide the balls into three equal groups. How many balls are in each group? Write a calculation to match your model.

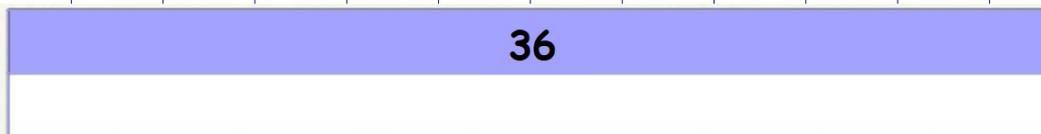


What about 4 equal groups?

Mr Ringer buys a case of 27 footballs for his school. Each class receives 3 balls. How many classes are there?
Complete the bar model to show your answer.



Mr Ringer buys a case of 36 footballs for his school. Each class receives 4 balls. How many classes are there?
Complete the bar model to show your answer.



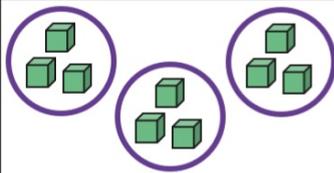
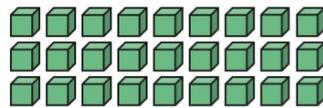
Match the correct calculation with the problem.
Explain your reason for each choice.

Jennie sorted 27 children into three equal groups.

Jake has shared nine cakes between three plates.

Johanna grouped 27 children into groups of three.

27		
9	9	9



- a) $24 \div 4 =$ b) $30 \div 3 =$
 c) $8 \div 4 =$ d) $21 \div 3 =$
 e) $3 \div 3 =$ f) $0 \div 3 =$
 g) $18 \div 3 =$ h) $36 \div 4 =$
 j) $12 \div 4 =$ j) $40 \div 4 =$

Divide the cubes into three equal groups. How many cubes are in each group? Write a calculation to match your model.



You have 32 cubes divided into four equal groups. How many cubes are in each group? Write a calculation to match your model.

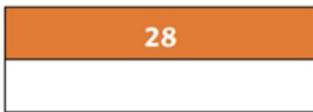


Miss Bell's class are split into groups of three for their PE lesson. There are 33 children in total in the class. How many groups would there be? Complete the bar model to show your answer.

33

| | | | | |

Miss Vardy is printing spellings for her class. She has put 4 lists onto each page. There are 28 children in the class. How many copies should Miss Vardy print? Complete the bar model to show your answer.



For lunch, the kitchen serves three sausages per person. If 45 vegetarian sausages are cooked, how many people will this serve?



Nadiya is ordering sandwiches for a party and has decided to order 4 per person. If Nadiya has ordered 56 sandwiches, how many people will there be at the party?

Match the correct calculation with the problem. Explain your reason for each choice.

- Jennie sorted her 15 books into three equal piles.
- Johanna grouped 18 children into groups of three.
- Jake used 15 stickers on the wheels of some tricycles.
- Mr Johnson split his class of 18 children into three equal teams.

<table border="1" style="margin: auto;"> <tr><td colspan="5">15</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table>	15					3	3	3	3	3
15										
3	3	3	3	3						
<table border="1" style="margin: auto;"> <tr><td colspan="3">18</td></tr> <tr><td>6</td><td>6</td><td>6</td></tr> </table>	18			6	6	6				
18										
6	6	6								

Extension



Barack threw some balls into the buckets and scored 13 points. All the balls landed in the red bucket except one, which landed in a different bucket.

How many balls could Barack have thrown? Find all the possibilities.

Time to fill in your target grid...

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Number and Place Value	Addition and Subtraction	Multiplication and Division	Measurements	Fractions	Geometry	Statistics

2 5 . 1 1 . 2 1

LO: to recap my times tables.

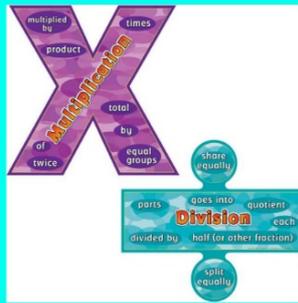
I know when to multiply or divide.

I can divide and multiply by 2, 3, 4, 5 and 10.

I understand how to apply my times tables knowledge to questions.

In maths, we are learning about...

MULTIPLICATION AND DIVISION



Flashback 4

Year 3 | Week 10 | Day 4

$$9 \times 5$$

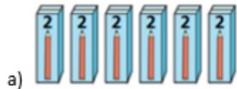
- 1) 24 pens are grouped in twos.
How many groups will there be?
- 2) If $10 \times 2 = 20$ and $7 \times 2 = 14$, what is 17×2 ?
- 3) Calculate $520 - 375$
- 4) How many quarter turns are in a full turn?

$$2 \times 10 = \dots\dots\dots \div 2$$

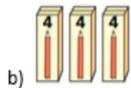
$$5 \times 8 = \dots\dots\dots \times 4$$

$$5 \times 3 = \dots\dots\dots \div 2$$

1) Complete the multiplications



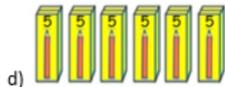
..... X =



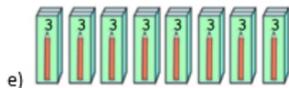
..... X =



..... X =



..... X =



..... X =

f) What do you notice about the multiplications? What is the same and what is different?

Extension

How many of these calculations can you make up for a partner to answer?

$$\text{.....} \times \text{.....} = \text{.....} \div \text{.....}$$

Time to fill in your target grid...

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Number and Place Value	Addition and Subtraction	Multiplication and Division	Measurements	Fractions	Geometry	Statistics

26.1 1.2 1

LO: to make number sentences equal.

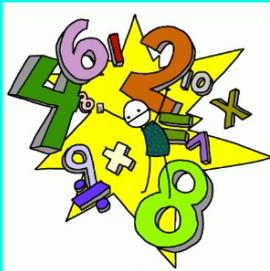
I know what '=' means.

I can add three 2-digit numbers.

I understand how to balance a number sentence.

On Fridays, we practise...

ARITHMETIC



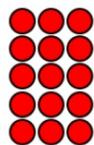
Flashback 4

Year 3 | Week 10 | Day 5

2×1

1) Divide 45 by 5

2) Use the array to complete the number sentences.



$\square \times \square = \square$

$\square \div \square = \square$

$\square \times \square = \square$

$\square \div \square = \square$

3) Estimate $393 - 138$

4) What shape is this?



$$36 + 39 =$$

$$55 + 20 =$$

$$\dots\dots\dots + \dots\dots\dots = \dots\dots\dots + \dots\dots\dots$$

$$51 + 38 = \dots\dots\dots + 22$$

$$\dots\dots\dots + 45 = 55 + 23$$

$$49 + 8 + 22 =$$

$$29 + 117 + 63 =$$

$1) 129 + 42 + 53 =$

$2) 347 + 28 + 81 =$

$3) 297 + 37 + 22 =$

$4) 521 + 55 + 19 =$

$5) 456 + 78 + 34 =$

$6) 28 + 79 = 37 + \dots\dots\dots$

$7) \dots\dots\dots + 55 = 68 + 44$

$8) 99 + \dots\dots\dots = 102 + 89$

$9) 228 + 99 = 147 + \dots\dots\dots$

$10) \dots\dots\dots + 95 = 613 + 48$

Extension

Use a dice to make your own questions based on this format. (You only need three numbers for each question!)

$1a) \dots\dots\dots + \dots\dots\dots + \dots\dots\dots =$

$1b) \dots\dots\dots + \dots\dots\dots = \dots\dots\dots + \dots\dots\dots$

True or False ?

Add 2-digit and 3-digit numbers - crossing 10 or 100

Both of these addition questions require an exchange.

H	T	O
		
		

	3	7	6
+		8	4
<hr/>			
<hr/>			