

# Year 2 Maths Multiplication and Division

## Learning from Home Activity Booklet

Year 2 Programme of Study – Multiplication and Division

Statutory requirements	Activity Sheet	Page Number	Notes
Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.	Weekly Time Challenge	2	
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs.	Array for Maths!	3	
Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	Commutativity	4	
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Multiplication Division Circus Solve It!	5 6 7	

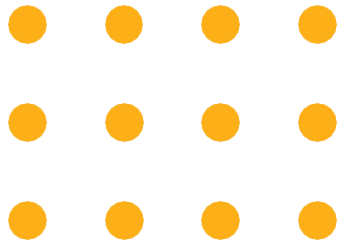
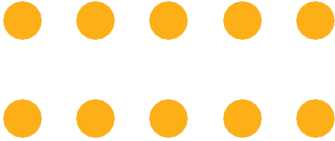
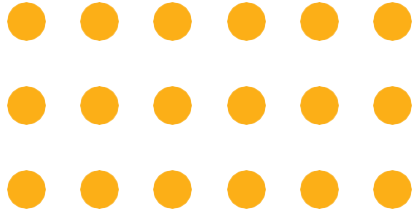
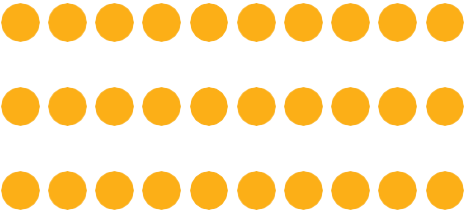
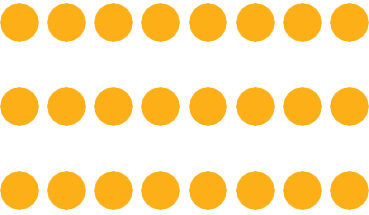
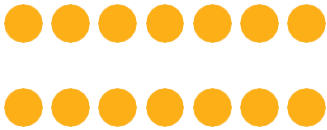
# Know Your Facts

Ask your helper to time you for 60 seconds. Complete as many of the questions in the first column as you can, then mark them together. Next week, try and beat your score using the next column.

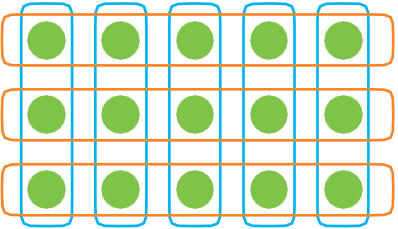


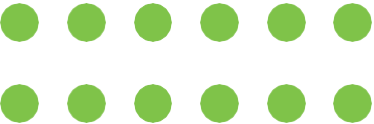
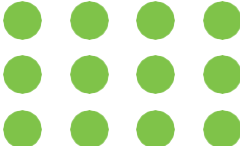
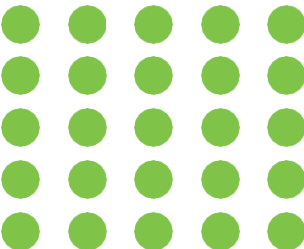
$3 \times 2 =$	$1 \times 5 =$	$1 \times 2 =$	$12 \times 2 =$	$1 \times 2 =$
$4 \times 5 =$	$5 \times 2 =$	$3 \times 3 =$	$11 \times 5 =$	$2 \times 3 =$
$2 \times 10 =$	$10 \times 5 =$	$5 \times 5 =$	$10 \times 2 =$	$3 \times 5 =$
$6 \times 5 =$	$4 \times 3 =$	$7 \times 10 =$	$1 \times 5 =$	$4 \times 3 =$
$3 \times 3 =$	$7 \times 10 =$	$9 \times 3 =$	$2 \times 3 =$	$5 \times 5 =$
$2 \times 5 =$	$2 \times 3 =$	$12 \times 5 =$	$3 \times 5 =$	$12 \times 3 =$
$1 \times 5 =$	$4 \times 2 =$	$11 \times 2 =$	$6 \times 3 =$	$11 \times 2 =$
$0 \times 3 =$	$6 \times 5 =$	$2 \times 10 =$	$4 \times 10 =$	$10 \times 3 =$
$10 \times 10 =$	$8 \times 10 =$	$4 \times 3 =$	$7 \times 2 =$	$9 \times 10 =$
$12 \times 2 =$	$9 \times 5 =$	$6 \times 5 =$	$9 \times 5 =$	$8 \times 10 =$
$11 \times 5 =$	$10 \times 3 =$	$8 \times 10 =$	$8 \times 3 =$	$7 \times 10 =$
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$5 \times 5 =$	$12 \times 5 =$	$12 \times 2 =$	$6 \times 10 =$	$0 \times 5 =$
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$6 \times 2 =$	$5 \times 10 =$	$7 \times 5 =$	$8 \times 5 =$	$8 \times 3 =$
$8 \times 10 =$	$10 \times 2 =$	$8 \times 10 =$	$9 \times 2 =$	$4 \times 2 =$
$4 \times 3 =$	$11 \times 5 =$	$9 \times 10 =$	$4 \times 5 =$	$11 \times 5 =$
$2 \times 2 =$	$9 \times 3 =$	$11 \times 3 =$	$3 \times 3 =$	$12 \times 3 =$
$5 \times 10 =$	$1 \times 10 =$	$12 \times 2 =$	$11 \times 2 =$	$0 \times 10 =$
$6 \times 4 =$	$0 \times 2 =$	$6 \times 5 =$	$12 \times 5 =$	$2 \times 2 =$

# Array for Maths!

Write two multiplication sentences for each of these arrays. The first one has been done for you.

		
$4 \times 3 = 12$		
$3 \times 4 = 12$		
		

Write two division sentences for each of these arrays. Try using coloured pencils to group the dots.

		
$15 \div 5 = 3$		
$15 \div 3 = 5$		
		

What do you notice about the last one? Talk to your helper.

# Commutativity

The commutative property of multiplication means that when two numbers are multiplied together it doesn't matter which one comes first because the product will be the same. Division does not have commutativity.

$4 \times 2 = 2 \times \underline{\hspace{2cm}}$

$1 \times 3 = 3 \times \underline{\hspace{2cm}}$

$3 \times 5 = 5 \times \underline{\hspace{2cm}}$

$3 \times 10 = 10 \times \underline{\hspace{2cm}}$

$7 \times 10 = 10 \times \underline{\hspace{2cm}}$

$11 \times 3 = 3 \times \underline{\hspace{2cm}}$

Fill in the missing numbers:

$\underline{\hspace{2cm}} \times 2 = 2 \times 5$

$5 \times 2 = \underline{\hspace{2cm}}$

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

$\underline{\hspace{2cm}} \times 3 = 3 \times 8$

$3 \times 8 = \underline{\hspace{2cm}}$

$8 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$10 \times 2 = 2 \times \underline{\hspace{2cm}}$

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

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

$4 \times 6 = \underline{\hspace{2cm}} \times 4$

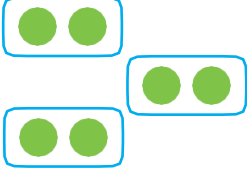

$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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

Challenge: Ryan has 3 boxes with 5 cars in each. His friend Sam has 5 boxes with 3 cars in each. Who has the most cars?

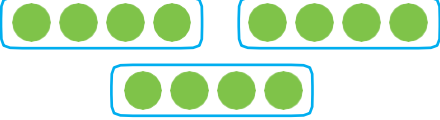


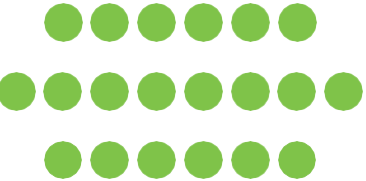

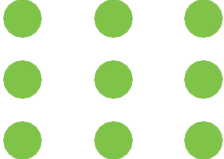
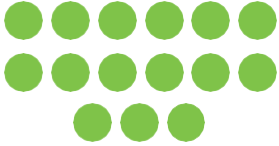
# Multiplication

Complete the table. The first one is done for you.

Factors	Repeated Addition	Groups	Array	Related Calculation (commutative property)	Product
$3 \times 2$	$2+2+2$			$2 \times 3$	6
$2 \times 5$					
$3 \times 10$					
$6 \times 2$					
$4 \times 3$					
$3 \times 5$					
$2 \times 10$					



# Division

Complete the table. The first one is done for you.

Division	Sharing	Answer	Related Multiplication Facts
$12 \div 3$		4	$3 \times 4 = 12$ $4 \times 3 = 12$
$8 \div 2$			
$10 \div 5$			
$20 \div 10$			
$12 \div 2$			
$9 \div 3$			
$15 \div 5$			

# Fill the Gaps

Emma and James are visiting the circus. Can you work out the answers to these problems for them? Use arrays, sharing, objects, or anything else that may help you. Don't forget to look for the important information!

<p>Each children's ticket costs £5. How much do the 2 children pay altogether?</p> <p><input type="text"/></p>	<p>Each section of the circus has 10 seats. If 40 people arrive, how many sections will they need?</p> <p><input type="text"/></p>	<p>There are 3 clowns and each clown juggles 4 balls. How many balls altogether?</p> <p><input type="text"/></p>
<p>There are 20 sweets in Emma's packet. If she shares them equally with James, how many sweets will they have each?</p> <p><input type="text"/></p>	<p>9 trapeze artists swing on 3 swings. How many trapeze artists are on each swing?</p>  <p><input type="text"/></p>	<p>The motorbike riders are next. There are 18 wheels altogether. How many motorbikes are there?</p>  <p><input type="text"/></p>
<p>The circus dancers wear feathers in their hair. There are 5 dancers and each dancer wears 3 feathers. How many feathers altogether?</p> <p><input type="text"/></p>	<p>There are 7 acrobats. Each acrobat does 5 tumbles. How many tumbles altogether?</p> <p><input type="text"/></p>	<p>At the end of the show, 10 performers take 30 bows altogether. How many bows does each performer take?</p> <p><input type="text"/></p>

