

Discussion Problems

Step 3: Divide by 2

National Curriculum Objectives:

Mathematics Year 2: (2C7) [Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication \(\$\times\$ \), division \(\$\div\$ \) and equals \(=\) signs](#)

Mathematics Year 2: (2C8) [Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 2 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Divide by 2

1. The 2-digit number on each shape is the sum of the answer to three division calculations from the grid. The shapes can be rotated.

The grid contains the following division problems:

$16 \div 2$	$24 \div 2$	$12 \div 2$	$8 \div 2$
$6 \div 2$	$20 \div 2$	$14 \div 2$	
$18 \div 2$	$22 \div 2$	$10 \div 2$	
$4 \div 2$			

Clusters of shapes with numbers:

- Blue cluster: 18
- Pink cluster: 23
- Yellow cluster: 21
- Green cluster: 16

Investigate how the shapes can be arranged on the grid.

DP

2. Crack the code by solving the division calculations and matching the answer with the correct letter. Create your own calculations for the last word to make the statement correct.

1	2	3	4	5	6	7	8	9	10	11	12
A	E	G	H	I	N	O	R	S	T	W	X

$20 \div 2$	$4 \div 2$	$12 \div 2$

$10 \div 2$	$18 \div 2$

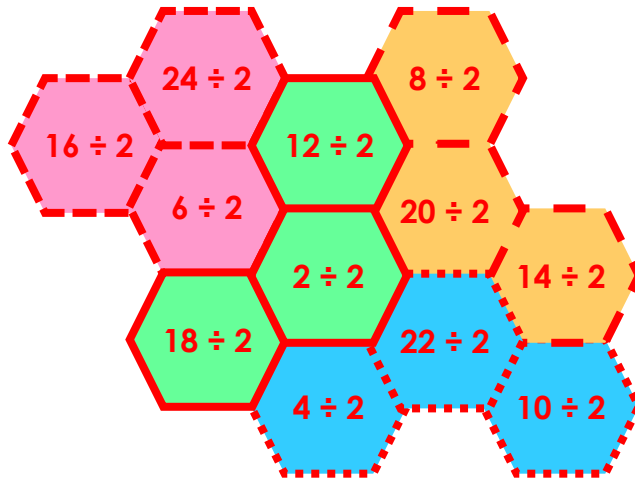
$6 \div 2$	$16 \div 2$	$4 \div 2$	$2 \div 2$	$20 \div 2$	$4 \div 2$	$16 \div 2$

$20 \div 2$	$8 \div 2$	$2 \div 2$	$12 \div 2$

DP

Divide by 2

1. The 2-digit number on each shape is the sum of the answer to three division calculations from the grid. The shapes can be rotated.



Investigate how the shapes can be arranged on the grid.

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2. Crack the code by solving the division calculations and matching the answer with the correct letter. Create your own calculations for the last word to make the statement correct.

1	2	3	4	5	6	7	8	9	10	11	12
A	E	G	H	I	N	O	R	S	T	W	X

$20 \div 2$	$4 \div 2$	$12 \div 2$
T	E	N

$10 \div 2$	$18 \div 2$
I	S

$6 \div 2$	$16 \div 2$	$4 \div 2$	$2 \div 2$	$20 \div 2$	$4 \div 2$	$16 \div 2$
G	R	E	A	T	E	R

$20 \div 2$	$8 \div 2$	$2 \div 2$	$12 \div 2$
T	H	A	N

$20 \div 2$	$22 \div 2$	$14 \div 2$
T	W	O

Also accept: Ten is greater than one or six.

DP