

Discussion Problems

Step 8: Divide 2 Digits by 1 Digit 1

National Curriculum Objectives:

Mathematics Year 4: (4C6a) [Recall multiplication and division facts for multiplication tables up to \$12 \times 12\$](#)

Mathematics Year 4: (4C6b) [Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers](#)

Mathematics Year 4: (4C8) [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](#)

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.

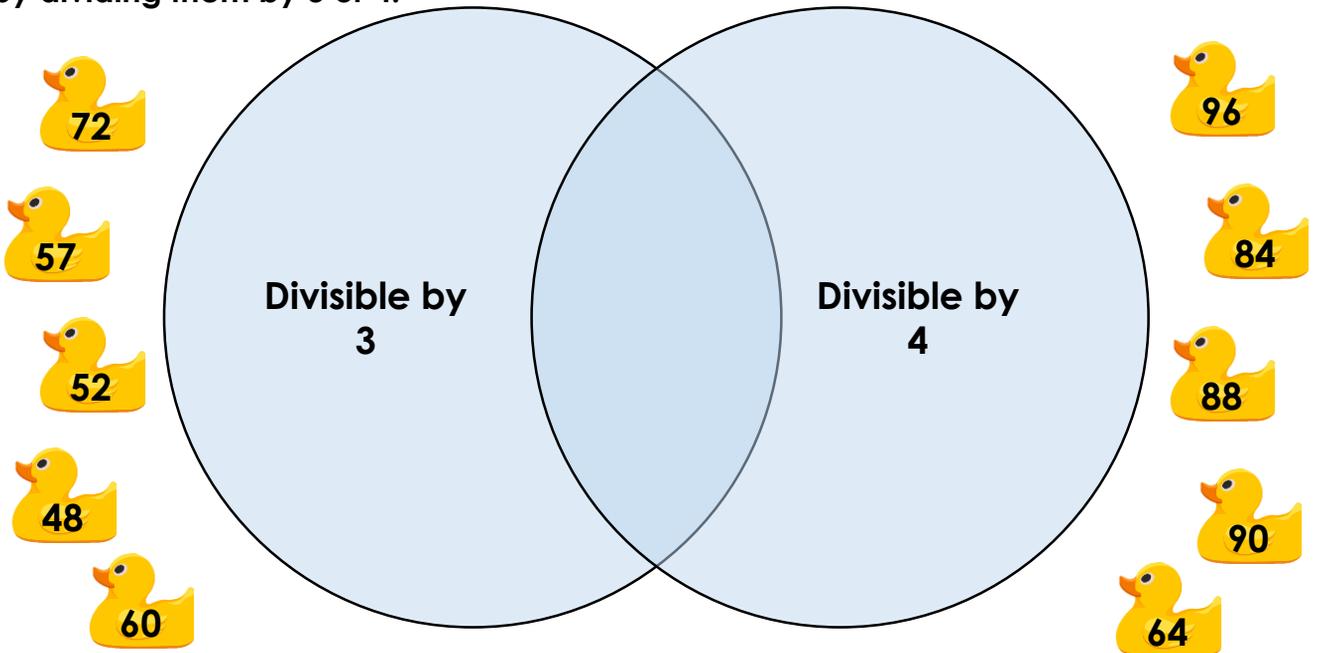
We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 4 Multiplication and Division](#) resources.

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

Divide 2 Digits by 1 Digit 1

1. Finlay is playing a maths game at the village fayre. He needs to sort the ducks into the correct sections of the pond to win a prize. Help Finlay sort the ducks into the pond by dividing them by 3 or 4.



Explore three other numbers that could be put in the centre of the Venn diagram.



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2. Staff at the aquarium are trying to sort their delivery of fish into 4 tanks. They need to make sure that each tank has an equal amount of each type of fish.

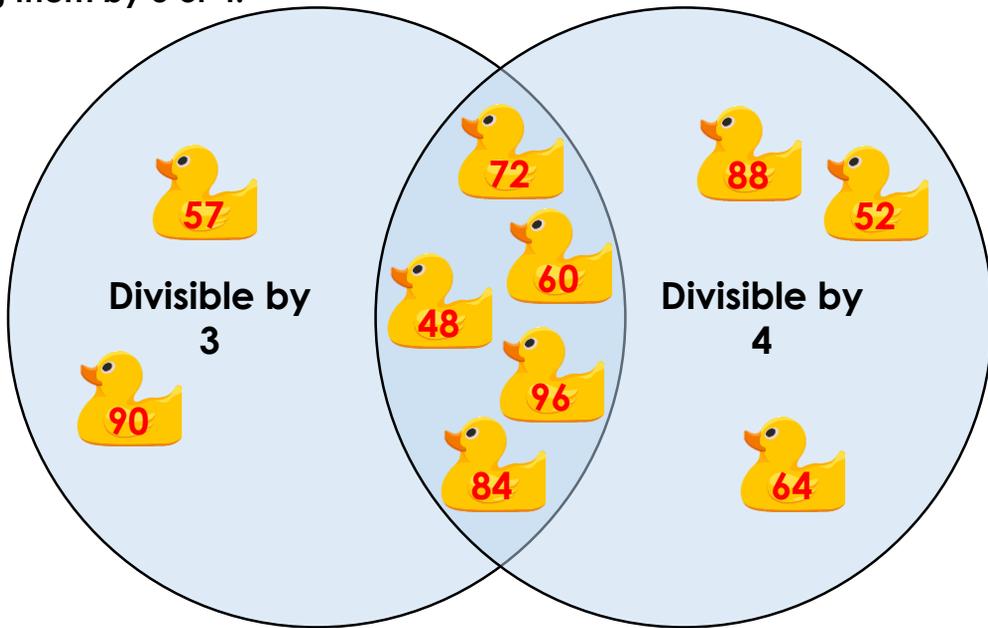
<p style="text-align: center;">A. 32 fish</p>	<p style="text-align: center;">B. A number from the 6 times table with a digit sum of 9.</p>
<p style="text-align: center;">C. Double the number of fish A.</p>	<p style="text-align: center;">D. A 2-digit number where both digits are the same.</p>

Investigate how many of each type of fish could be placed in each tank.

DP

Divide 2 Digits by 1 Digit 1

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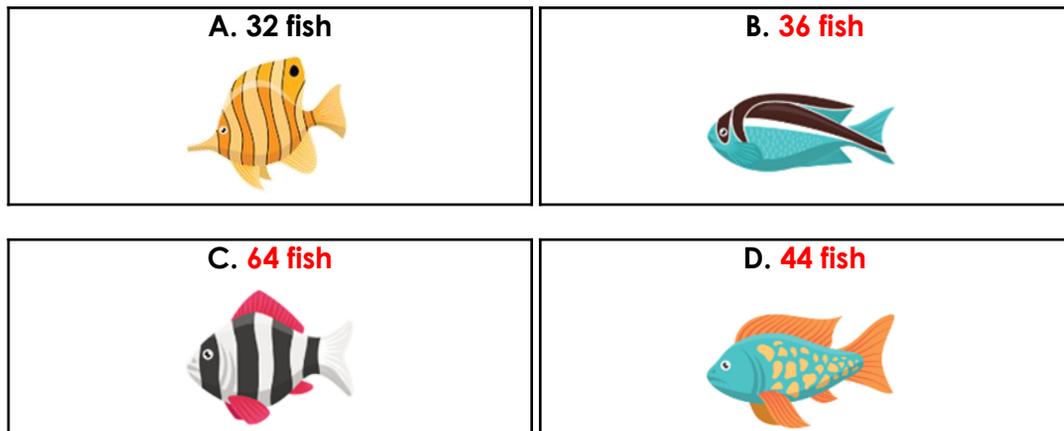
Explore three other numbers that could be put in the centre of the Venn diagram.

Various answers, for example:



DP

2. Staff at the aquarium are trying to sort their delivery of fish into 4 tanks. They need to make sure that each tank has an equal amount of each type of fish.



Investigate how many of each type of fish could be placed in each tank.

Various answers, for example: Fish A: $32 \div 4 = 8$; Fish B: $36 \div 4 = 9$; Fish C: $64 \div 4 = 16$; Fish D: $44 \div 4 = 11$.

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