

Discussion Problems

Step 5: Divide 1 Digit by 10

Teaching note: For Q2, an A3 copy on card and scissors may be necessary. Children may need help constructing the spinner.

National Curriculum Objectives:

Mathematics Year 4: (4F9) [Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths](#)

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.

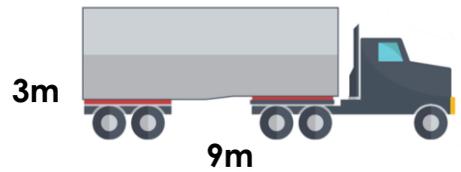
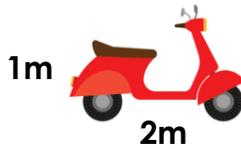
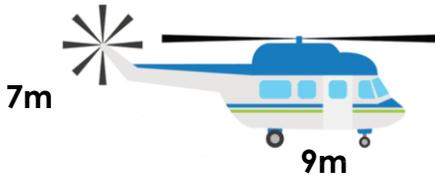
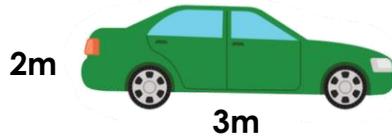
More [Year 4 Decimals](#) resources.

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

Divide 1 Digit by 10

1. Class 4M has been to the transport museum. They have written the dimensions of the vehicles in order to make models.

To fit in the classroom, the models need to be exactly 10 times smaller than the original vehicles. The dimensions of the models cannot be more than 0.7m long or 0.2m high.



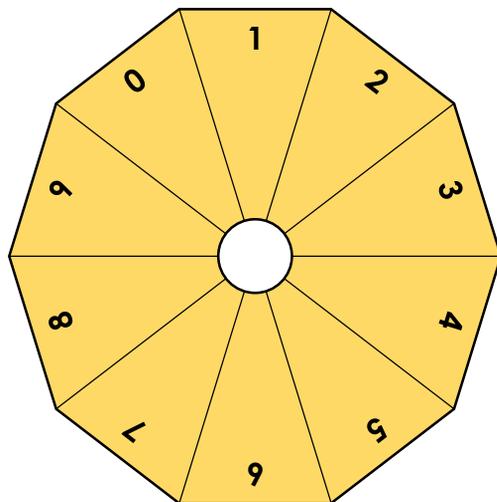
Explore which vehicles the children can make.

DP

2. In pairs, cut out the spinner and each select a coloured pencil.

Rules

1. Spin the spinner.
2. For numbers 1 to 9, divide by 10 and place the answer on the grid.
3. If you land on 0, miss a turn.
4. The next person takes their turn.
4. The winner is the first person to get four decimals in a row.

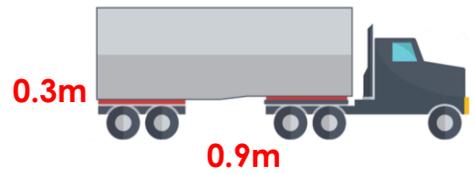
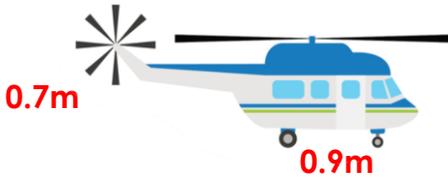
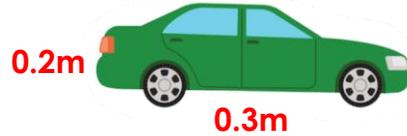


DP

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Explore which vehicles the children can make.

The children can create models of the ambulance, car and scooter.

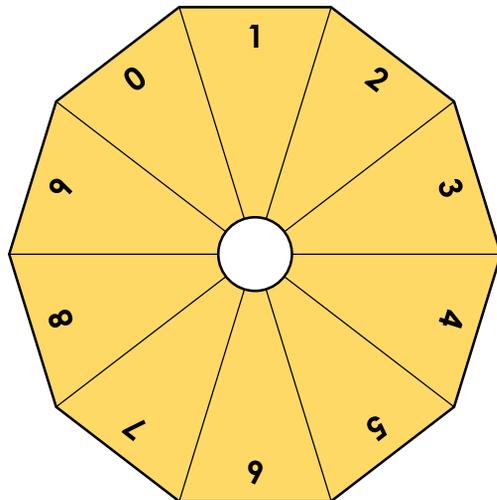
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0.2	0.1	0.8	0.4
0.5	0.9		
		0.6	
			0.5



Various answers dependent on the numbers spun.

DP