

Mastering Decimals: Max the Monkey's Mathematical Expedition

Learning objective: To consolidate understanding of decimals, including place value, rounding, and converting decimals to fractions.

Read the front of each flashcard to test your knowledge. Flip to check if your answer matches Max the Monkey's calculations. For the Greater Depth section, provide full explanations for your reasoning.

What does the decimal point represent in a number like 4.52?	How many hundredths are there in 0.7?
It separates the whole number part (ones, tens, hundreds) from the fractional part (tenths, hundredths, thousandths).	70 hundredths.
Max has £0.75. Write this amount as a fraction in its simplest form.	What is 0.458 rounded to the nearest tenth?
$\frac{3}{4}$.	0.5.
Compare 0.6 and 0.06. Which is greater and by how much?	If you add 0.007 to 0.09, what is the total?
0.6 is greater; it is ten times larger than 0.06.	0.097.
Write the decimal 'six tenths and five hundredths' as a single number.	Max buys a snack for £1.20 and a drink for £0.85. How much does he spend in total?
0.65.	£2.05.
Explain why 0.5 is equivalent to 0.500.	Justify why 0.125 is the decimal equivalent of $\frac{1}{8}$.
Adding zeros to the end of a decimal does not change its value as it simply occupies placeholder positions in the thousandths and hundredths columns.	Dividing 1 by 8 using formal written methods or partitioning shows that $1 \div 8 = 0.125$.