

Max's Decimal Discovery

Learning objective: To read, write, order, and compare numbers with up to three decimal places, and solve problems involving money.

Help Max the monkey solve these decimal puzzles. Read each question carefully and show your working out.

Max has been busy organising his collection of fruit tokens. He uses decimals to keep track of their weight in kilograms and their value in rupees and paise.

Word bank: decimal point · tenths · hundredths · thousandths · place value · equivalent

1. Max has three piles of fruit tokens weighing 0.456kg, 0.465kg, and 0.406kg. Write these weights in ascending order (smallest to largest). (2 marks)

2. Max buys a special banana token for £3.45 and an apple token for £2.89. How much does he spend in total? Use column addition to show your answer. (2 marks)

3. Fill in the missing decimal to make the statement true: $0.7 = 0.70 = ?/1000$ (1 mark)

4. Max has £10.00. He spends £4.25 on a new puzzle book. How much change does he receive? (2 marks)

5. Compare these two numbers using $<$, $>$ or $=$: 5.002 ____ 5.020 . Explain why you chose your symbol. (2 marks)

Draw: Draw a set of balance scales. On one side, draw a weight labelled 0.5kg and on the other side, draw a weight labelled 0.500kg. Show that they are balanced.



Extension challenge: Max finds a mystery token that is worth more than 1.25 but less than 1.26. Write down three different possible values the token could have, using three decimal places.