

Max the Monkey's Decimal Discovery

Learning objective: To identify the value of each digit in numbers with up to three decimal places and multiply and divide numbers by 10, 100, and 1000.

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

Max the Monkey is organising his jungle market stall. He needs to use his knowledge of decimals to manage his fruit prices and weight measurements accurately.

Word bank: decimal · place value · tenths · hundredths · thousandths · multiply · divide · digit

1. Max is selling bunches of bananas for £1.45. What is the value of the digit '4' in this price? Write your answer as a fraction and a decimal. (2 marks)

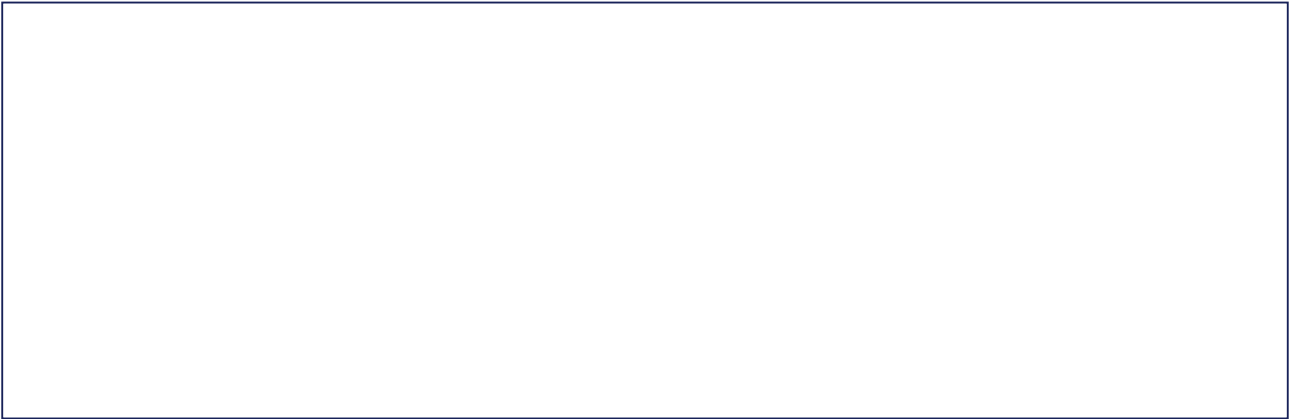
2. A large bag of mangoes weighs 4.75 kg. Max needs to divide this weight into 10 smaller portions. What will the weight of each portion be? (2 marks)

3. Max buys a crate of pineapples that weighs 12.8 kg. If he multiplies the weight by 100 to calculate the total weight in grams (where 1kg = 1000g, but here we are just looking at the decimal shift), what is the new number? (2 marks)

4. Order these decimal weights from smallest to largest: 0.602 kg, 0.62 kg, 0.062 kg, 0.6 kg. (2 marks)

5. Max finds a rare fruit that costs £0.879. Round this price to the nearest tenth of a pound. (2 marks)

Draw: Draw a picture of Max the Monkey standing behind a market stall filled with various fruits, with price tags clearly labelled in decimals (e.g., £2.50, £0.75).



Extension challenge: Max has £10.00. He wants to buy 5 items that each cost £1.85. Does he have enough money? Explain your reasoning using decimal addition or multiplication.