

Year 5 Maths Assessment: Understanding Decimals

Learning objective: To read, write, order, and compare numbers with up to three decimal places, and solve problems involving decimals in the context of money and measures.

Read each question carefully. Show your working out where possible. You may use the provided space for your calculations. Good luck!

Max the monkey is helping his friends organise their market stall. He needs to label the items, calculate the total costs, and record the weights of the fruit. Use your knowledge of decimals to help Max solve these puzzles.

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

1. Max has a bag of apples weighing 1.452 kg. Write this number in a place value grid or expand it to show the value of each digit. (2 marks)

2. Compare these three prices using the symbols $<$, $>$ or $=$: £4.56, £4.65, £4.506. (2 marks)

3. Rounding challenge: Round 7.348 to the nearest whole number and to the nearest tenth. (2 marks)

4. Max sells a bunch of bananas for £2.85 and a punnet of strawberries for £3.40. Calculate the total cost and explain how you used your knowledge of decimal addition to find the answer. (4 marks)

5. Convert the following fractions into decimals: a) $\frac{7}{10}$, b) $\frac{45}{100}$, c) $\frac{8}{1000}$. (3 marks)

6. Pip the caterpillar buys a notebook for £1.25 and a pen for £0.95. If Pip pays with a £5 note, how much change should Pip receive? Show your full working out. (4 marks)

7. Extended Response: Max says, 'If I have 0.5, 0.50, and 0.500, they are all different amounts because the numbers get longer.' Write a short paragraph explaining to Max why he is incorrect, using your knowledge of equivalent decimals. (8 marks)

Draw: Draw a number line between 0 and 1, and mark the positions of 0.25, 0.5, and 0.75 accurately.



Extension challenge: Total: /25