

Max's Market Challenge: The Rounding Round-up

Learning objective: To round decimals with two decimal places to the nearest whole number and to the nearest tenth.

Max the monkey is helping at the local community market. He needs to round the prices of fruit and vegetables so customers can pay with the right coins. Use your knowledge of place value to help Max round these prices correctly. For each price, complete the table by rounding to the nearest pound (£) and the nearest ten pence (10p).

Word bank: rounding · decimal · tenth · whole number · nearest · estimate · value

1. A punnet of strawberries costs £2.37. Round this to the nearest £1 and the nearest 10p. Justify your reasoning by explaining which digit determined your choice. (2 marks)

2. A bunch of organic carrots costs £1.64. Round this to the nearest £1 and the nearest 10p. (2 marks)

3. A large melon costs £4.85. Max says this rounds up to £5.00 when rounding to the nearest pound. Is he correct? Explain why. (2 marks)

4. Compare and contrast: Why does 3.45 round up to 3.5 when rounding to the nearest tenth, but round down to 3 when rounding to the nearest whole number? (2 marks)

5. If a bag of apples costs £3.55, what is the smallest possible amount it could have cost before being rounded to £3.60? Justify your answer. (2 marks)

6. What might happen if a shopkeeper always rounded prices down to the nearest pound instead of rounding to the nearest whole number? How would this affect their profit? (2 marks)

Draw: Draw a number line from 2.0 to 3.0 and place the number 2.74 on it. Use a red arrow to show which whole number it is closer to.



Extension challenge: Design your own 'Market Stall' price list with five items. Choose prices that include two decimal places. Write a challenge question for a partner asking them to round your prices to both the nearest pound and the nearest tenth.