

Max's Market Measurements

Learning objective: To convert between different units of measure (millimetres, centimetres, metres) and solve money problems involving decimals.

Read the story about Max the monkey and answer the questions below. Remember to show your working out for the calculation questions.

Max the monkey is helping his friends at the woodland market. He has a tape measure that is 2 metres long. Max needs to measure lengths of ribbon for Zara the zebra's art project. He knows that 1 meter is equal to 100 centimetres, and 1 centimetre is equal to 10 millimetres. Zara buys 3 pieces of ribbon that are each 45 centimetres long. Max also helps Bea the honeybee calculate the cost of flowers. A bunch of sunflowers costs £2.50, and a jar of wildflower honey costs £4.75. Max loves using his math skills to make sure everyone gets the right amount of supplies and change.

Word bank: millimetre · centimetre · meter · decimal · conversion · currency · total

1. Max has a 2-meter tape measure. How many centimetres long is the tape measure in total? (1 mark)

2. Zara buys 3 pieces of ribbon, each 45 centimetres long. What is the total length of the ribbon in centimetres? (2 marks)

3. Convert your answer from the previous question into metres and centimetres (e.g., 1m 20cm). (2 marks)

4. Bea buys one bunch of sunflowers (£2.50) and one jar of honey (£4.75). What is the total cost? (2 marks)

5. If Bea pays with a £10 note, how much change should Max give her? (2 marks)

Draw: Draw Max the monkey holding his tape measure next to a pile of 3 ribbons, each measuring 45 centimetres long.



Extension challenge: If a piece of ribbon is 125 millimetres long, how many centimetres is that? Explain your method to a partner.